FasTrak

44" & 52" Deck Parts Manual

HUSTLER

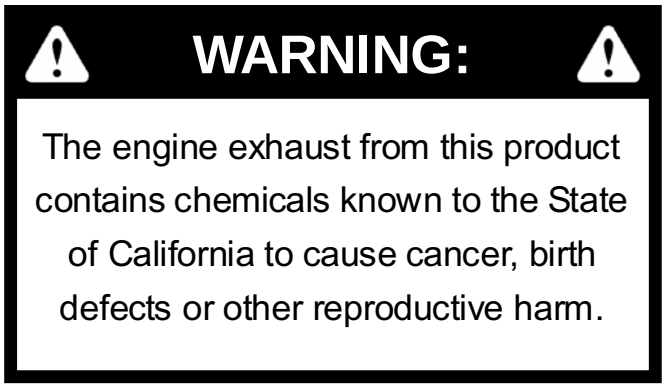
Hustler Turf Equipment

P.O. Box 7000

Hesston, Kansas

67062-2097

365262 Rev. 4/07


WARNING:
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

IMPORTANT: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on any forest-covered, brush-covered, or grass-covered unimproved land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

The Engine Owner's Manual provides information regarding the U.S. Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance and warranty.

Keep Engine Owner's Manual with your unit. Should the Engine Owner's Manual become damaged or illegible, replace immediately. Replacements may be ordered per the information found in the Product Information section of the owner's manual.

Table of Contents

Chapter 1

General Information 1-1

Chapter 2 Contents

Tractor Frame Rivet Nut Installation 2-2
Idler Plate Rivet Nut Installation 2-3
Engine Guard Rivet Nut Installation 2-4
Footrest Assembly 2-5

Chapter 3 Contents

Battery Installation. 3-2
Deck Lift Assembly 3-4
Steering and Brake Assembly. 3-6
Hydro Transmission Installation 3-8
Towlink Installation 3-10

Chapter 4 Contents

Honda 18 & 20 HP Engine Installation 4-2
Honda 16 HP Engine Installation 4-4
Briggs & Stratton 17.5 HP Engine Installation. 4-6
Kohler 18 & 20 HP Engine Installation 4-8
Fuel System Installation 4-12
Instrument Panel Assembly/Installation 4-14
Honda 18 & 20 HP Electrical Schematic (784868) 4-16
Honda 16 HP Electrical Schematic (786178). 4-18
Briggs & Stratton Electrical Schematic (786186) 4-20
Kohler Electrical Schematic (792754). 4-22

Chapter 5 Contents

Front Wheel Assembly 5-2
Front Wheel Breakdown—768044 5-3
Drive Wheel Assembly—783134 5-4
Anti-Rollover Wheel Assembly—Honda and Briggs 5-5

Chapter 6 Contents

52" Deck Assembly 6-2
52" Deck Pulley Assembly 6-4
44" Deck Assembly 6-8

44" Deck Pulley Assembly 6-10
Blade Spindle Assembly Breakdown 6-13

Chapter 7 Contents

Deck Installation 7-2
Deck Belt Routing and Tensioning 7-3
Seat Installation 7-4

Chapter 8 Contents

Tractor Decals 8-2
52" Deck Decals 8-4
44" Deck Decals 8-5

Chapter 9 Contents

Maintenance & Ajustment Precautions. 8-2
Maintenance. 8-4
Ajustments 8-5
Index. i-1

Chapter 1

General Information

*This Manual covers FasTrak 20/52 model **926501,** FasTrak 18/44 model **926519**, FasTrak 16/44 model **926527,** FasTrak 18/52 model **926592**, FasTrak 17.5/52 model **926600**, FasTrak 17.5/44 model **926774,** FasTrak 18/44 model **927442,** & Fastrak 20/52 model **927459.***

Frequently Ordered Parts

PART NO.	DESCRIPTION
784231	Pump Drive A-Section Belt
784249	52" Deck B-Section Belt
784322	44" Deck B- Section, Belt
785626	Fuel Filter
785600	Honda 18 & 20 HP Air Filter
785618	Honda 18 & 20 HP Air Filter Precleaner
785634	Honda 18 & 20 HP Engine Oil Filter
787226	Honda 16 HP Air Filter
787234	Honda 16 HP Engine Oil Filter
786988	Air Cleaner Cartridge, Briggs & Stratton
787002	Oil Filter, Briggs & Stratton Engine
794370	Kohler Paper Air Filter
747303	Kohler Engine Oil Filter
068478	Kohler Fuel Filter In-line
789511	Filter Kit, C-IZT

Service Literature

PART NO.	DESCRIPTION
600643	FasTrak Owner's Manual
785642	Honda 18 & 20 HP Engine Manual
787242	Honda 16 HP Engine Manual
786962	17.5 HP Briggs & Stratton ELS Engine Manual
794313	Kohler Courage Engine Manual

Options

PART NO.	DESCRIPTION
365668	52" FasTrak Mulch Kit
365684	44" FasTrak Mulch Kit
785428	16" CW Gator Blade
785436	18" CW Gator Blade
793331	Armrest Kit (Michigan Seat)
784850	Armrest Kit (Milsco Seat)
367425	FasTrak Seat Spring Kit
367656	FasTrak Hour Meter Kit

Note: *When ordering parts, you must use the part number as shown for each part, not the index number. Always give the model and serial number to your parts and service representative.*

Note: *Items sold in bulk such as seals and hoses are sold by the foot*

Using this manual

Illustrations used were current at the time of printing, but subsequent production changes may cause your machine to vary slightly in detail. Excel Industries, Inc. reserves the right to redesign and change the machine as deemed necessary, without notification. If a change has been made to your machine which is not reflected in this parts manual, see your Hustler dealer for current information and parts.

Hardware Description Codes & Abbreviations

The following codes are used throughout this parts manual. Refer to this list when ordering parts.

ABBREVIATION	*DESCRIPTION*
CB	Carriage Bolt
CE	Clevis Pin
CP	Cotter Pin
CS	Cap Screw
CW	Cup Washer
FDRW	Fender Washer
FW	Flat Washer
HX	Hex Head
LW	Lock Washer
MB	Machine Bushing
MS	Machine Screw
NT	Nut
SC	Self Tapping Cap Screw
SH	Socket Head
SB	Shoulder Bolt
SS	Set Screw
OD	Outside Diameter
ID	Inside Diameter

Standard Torques

The following chart lists the standard torque values for the threaded fasteners found in this manual. Torque all cap screws, nuts and set screws to these values unless a different torque is shown in the Notes section next to the fastener

SIZE	*FT-LBS*	*NM*	*SIZE*	*FT-LBS*	*NM*
.250	8.2	11.1	M3	1	1.3
.312	17	23	M4	2.2	3
.375	30	40	M5	4.5	6.1
.438	48	65	M6	7.7	10.4
.500	73	99	M8	18.5	25
.562	105	143	M10	37	50
.625	145	200	M12	64	87
.750	260	350	M16	160	215
.875	420	565	M20	320	435
1.00	625	850	M24	555	750

NOTE:

Loctite® 592 to be used on all pipe threads.
Lubricate all grease zerks.

Chapter 2 Contents

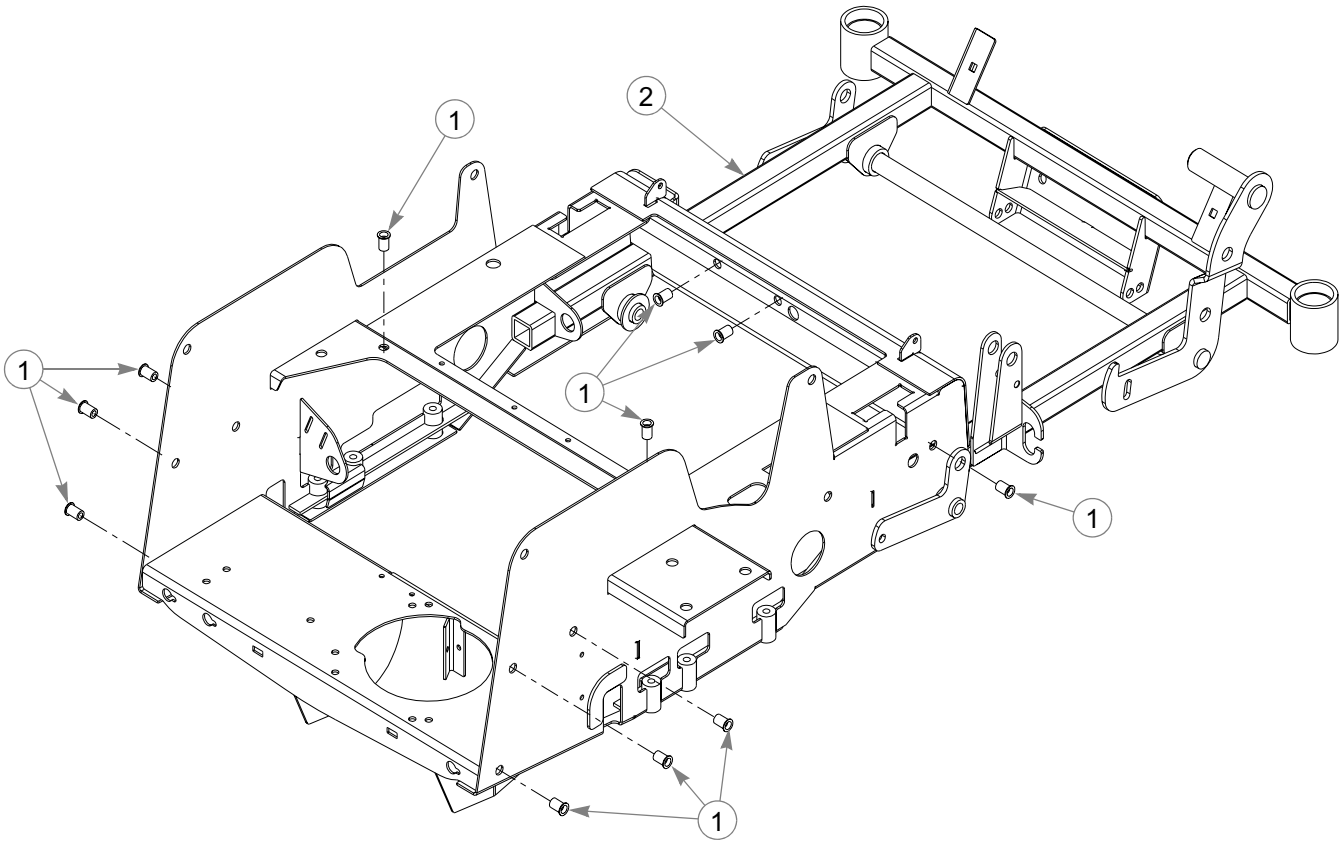
Tractor Frame Rivet Nut Installation 2-2

Idler Plate Rivet Nut Installation. 2-3

Engine Guard Rivet Nut Installation. 2-4

Footrest Assembly. 2-5

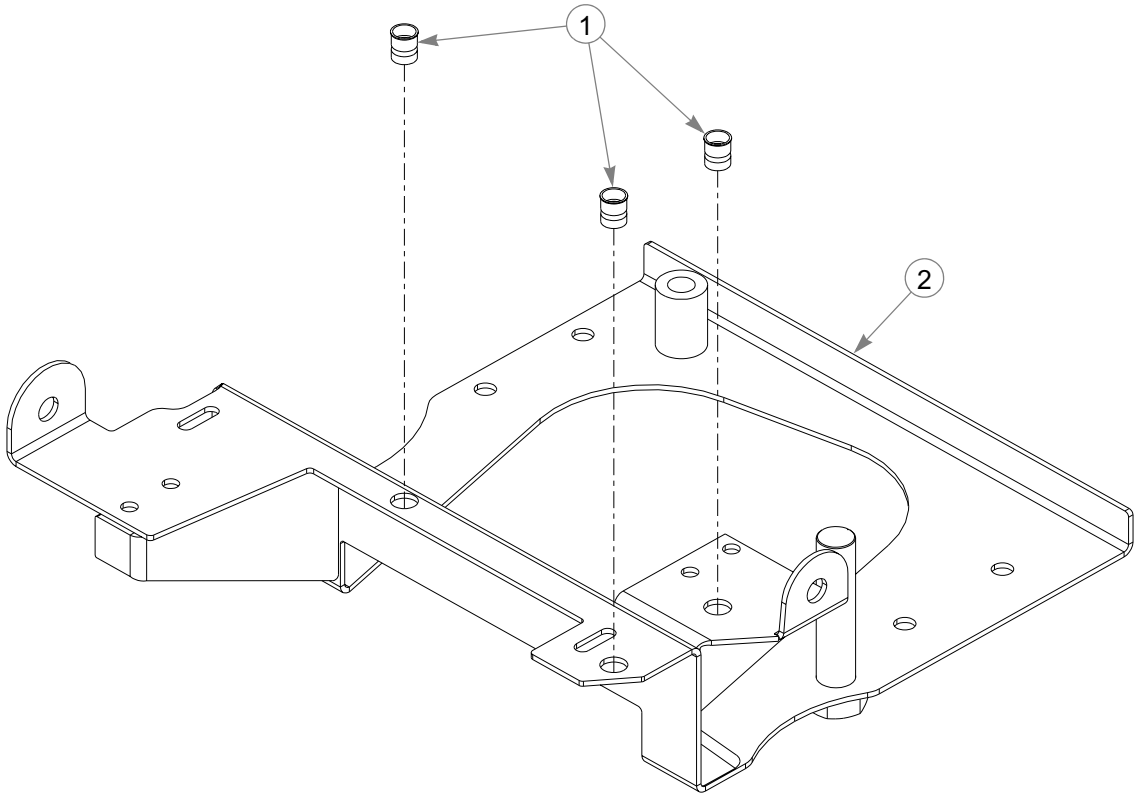
Tractor Frame Rivet Nut Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	N/A	808485	11	RIVET NUT, 5/16-18 THREAD
2	546044	365544	1	44” FASTRAK FRAME
	545962	361667	1	52" FASTRAK FRAME

NOTES:

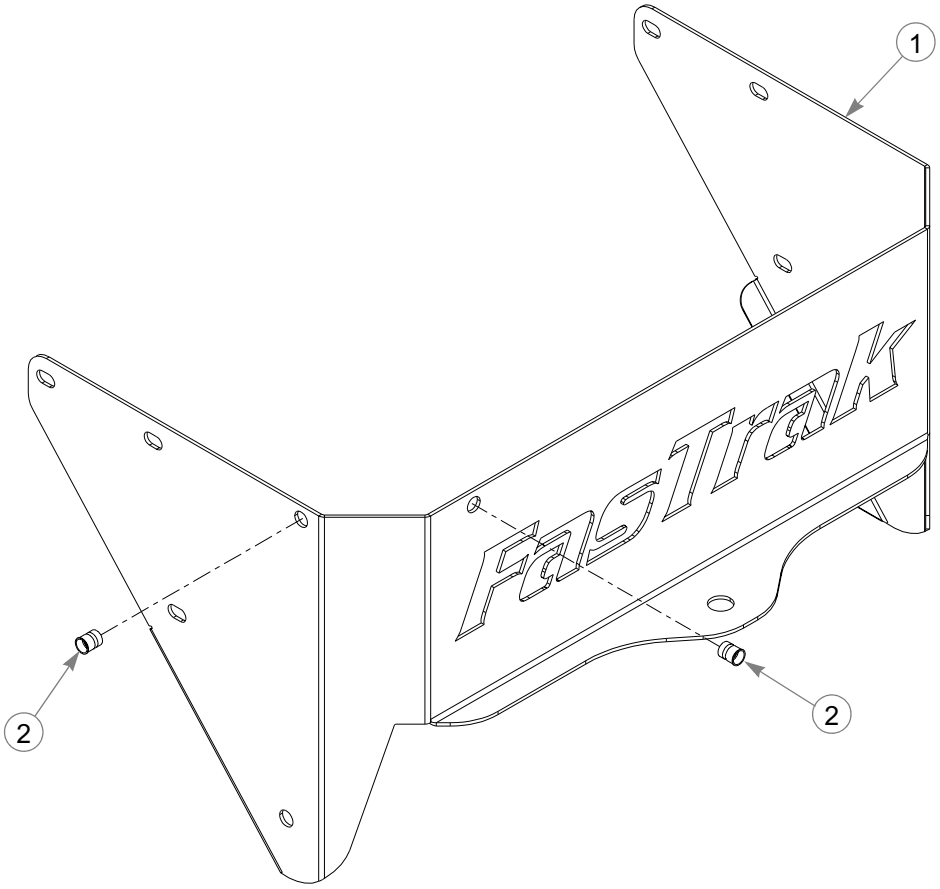
Idler Plate Rivet Nut Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	N/A	808485	3	RIVET NUT, 5/16-18 THREAD
2	363952	363952	1	IDLER PLATE

NOTES:

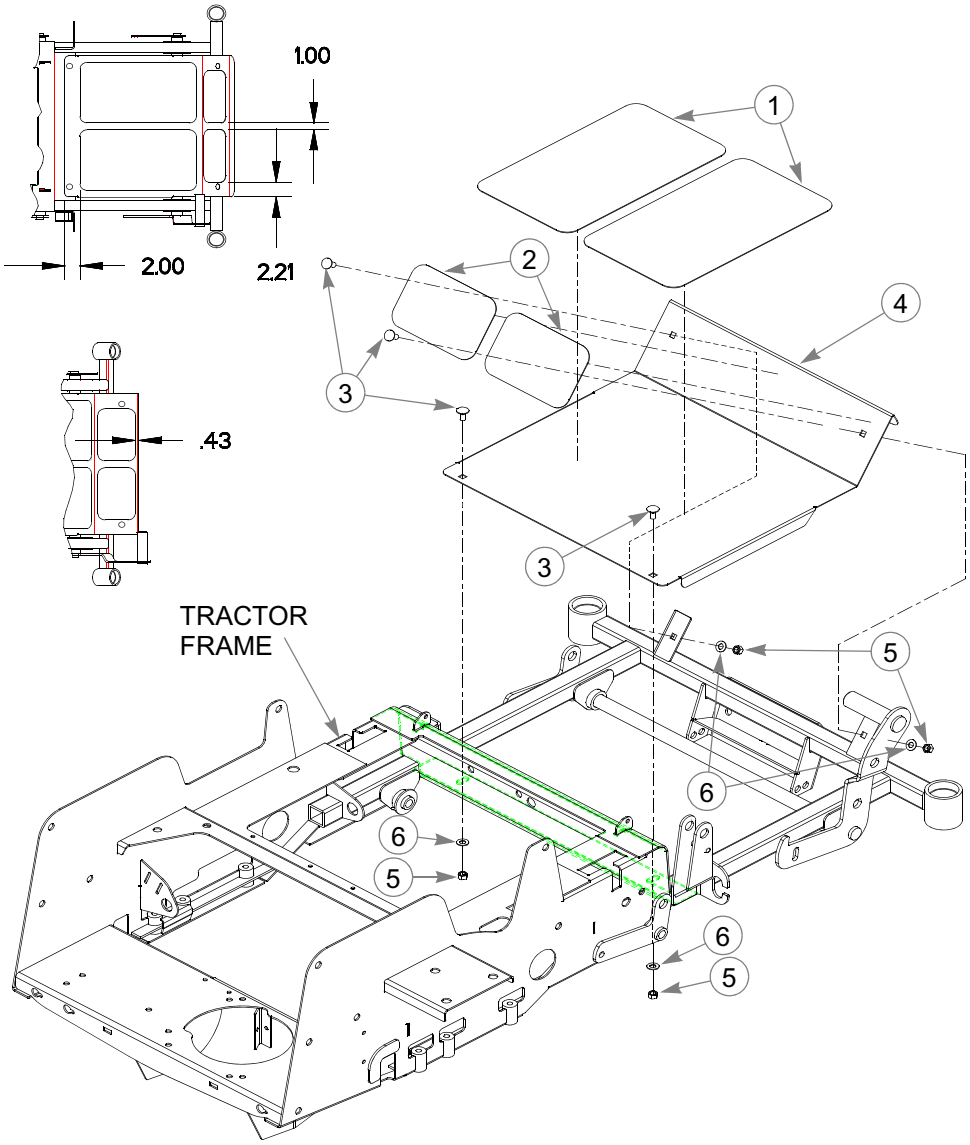
Engine Guard Rivet Nut Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	364885	364885	1	ENGINE GUARD
2	N/A	808485	2	RIVET NUT, 5/16-18 THREAD

NOTES:

Footrest Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	785493	785493	2	LOWER STEP TREAD
2	785485	785485	2	UPPER STEP TREAD
3	011320	011320	4	CB .375-16 X .750 STD ZN
4	355651	355651	1	FLOOR PLATE
5	054502	054502	4	NT .375-16 HX GRD 5 ZNYC
6	767954	767954	4	FW .406 X .812 X .060 SAE HD ZN

NOTES:

Chapter 3 Contents

Battery Installation 3-2

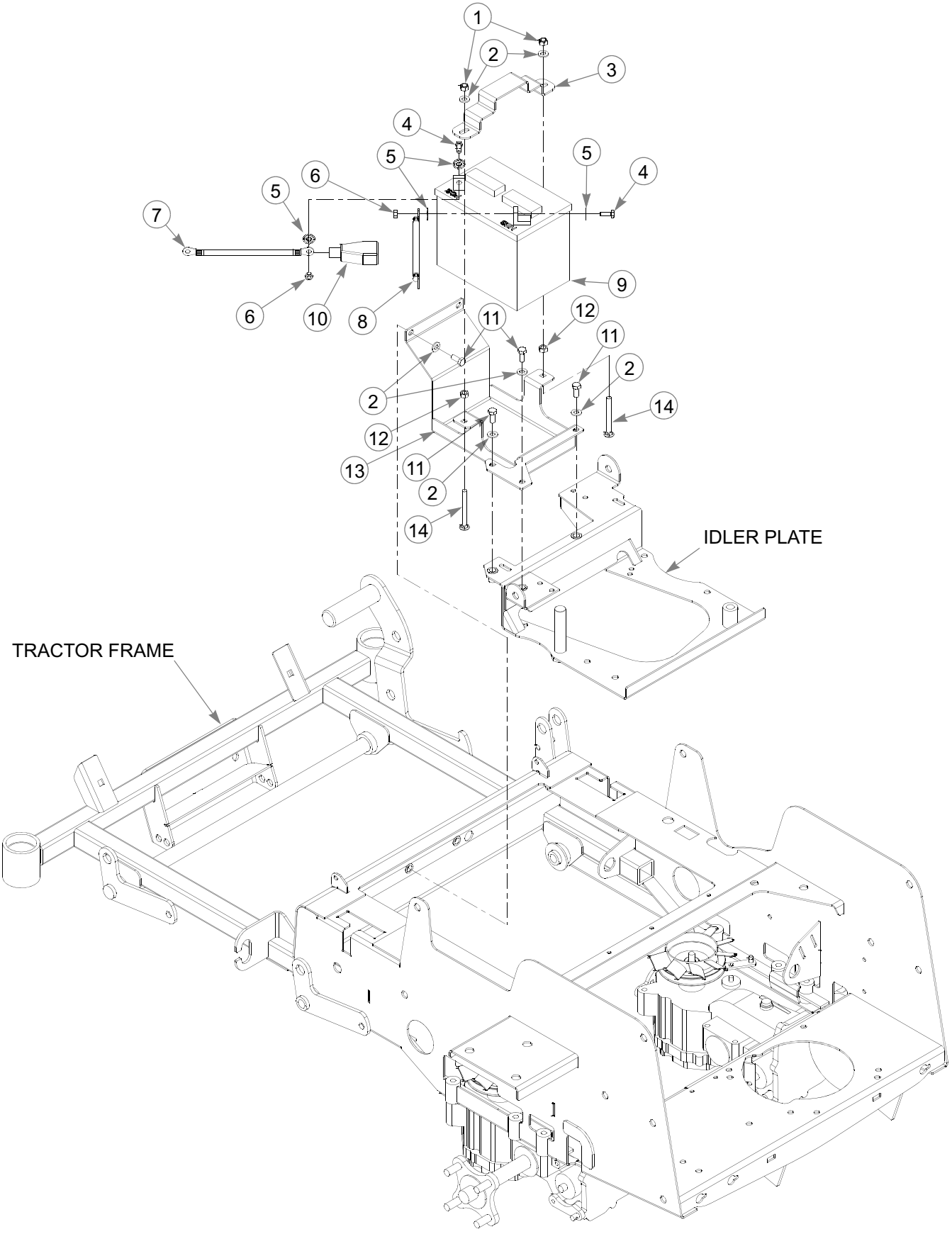
Deck Lift Assembly 3-4

Steering and Brake Assembly 3-6

Hydro Transmission Installation 3-8

Towlink Installation 3-10

Battery Installation



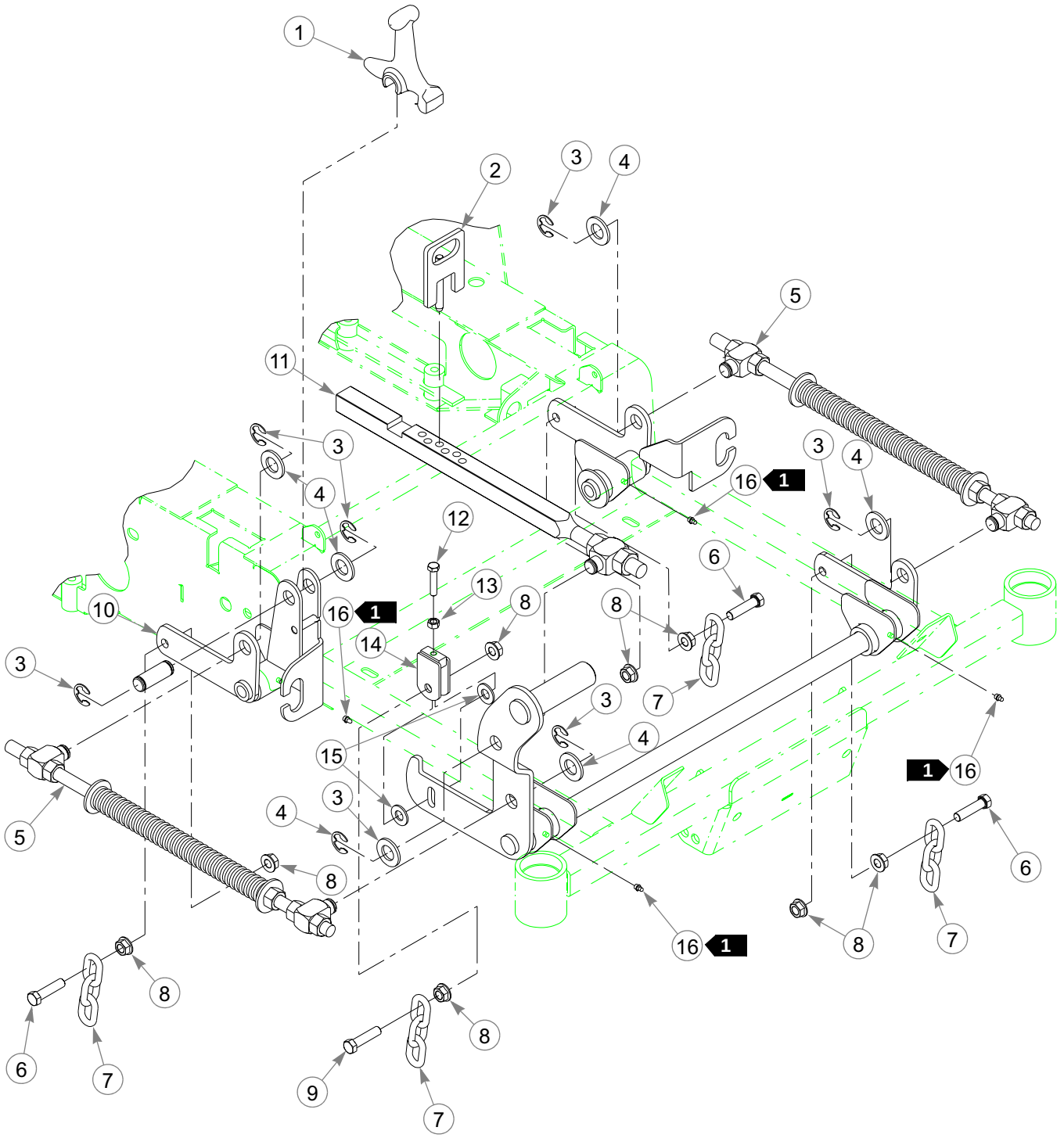
Battery Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	058776	058776	2	NT .312-18 HX NL ZNYC
2	768523	768523	7	FW .343 X .687 X .051/.080 HD ZNYC
3	348417	348417	1	BATTERY CLAMP STRAP
4	055939	055939	2	CS .250-20 X .750 HX G5 ZNYC
5	029868	029868	4	LW .250 INT-EXT TOOTH ZNYC
6	024927	024927	2	NT .250-20 HX GR.5 ZNYC
7 [1]	785063	785063	1	POSITIVE BATTERY CABLE
7 [2]	786632	786632	1	POSITIVE BATTERY CABLE
[4]	793216	793216	1	POSITIVE BATTERY CABLE
8 [5][1]	785071	785071	1	NEGATIVE BATTERY CABLE
8 [3]	786640	786640	1	NEGATIVE BATTERY CABLE
[4]	795146	795146	1	NEGATIVE BATTERY CABLE
9	740696	740696	1	BATTERY (VU1LH-8)
10	771428	771428	1	BATTERY CABLE BOOT-RED
11	034280	034280	5	CS .312-18 X .750 HX G5 ZNYC
12	034272	034272	2	NT .312-18 HX G5 ZNYC
13	364174	364174	1	BATTERY SUPPORT
14	779850	779850	2	CB .312-18 X 3.00 FUL ZN

NOTES:

1. Used on mowers with Honda 18 & 20 HP engines.
2. Used on mowers with Briggs & Stratton engines, and Honda 16 HP engines.
3. Used on mowers with Honda 16 HP Engines.
4. Used on mowers with Kohler engines
5. Used on mowers with Briggs & Stratton engines.
6. Battery is not installed on CE units nor in non CE units for sales outside the U.S.

Deck Lift Assembly



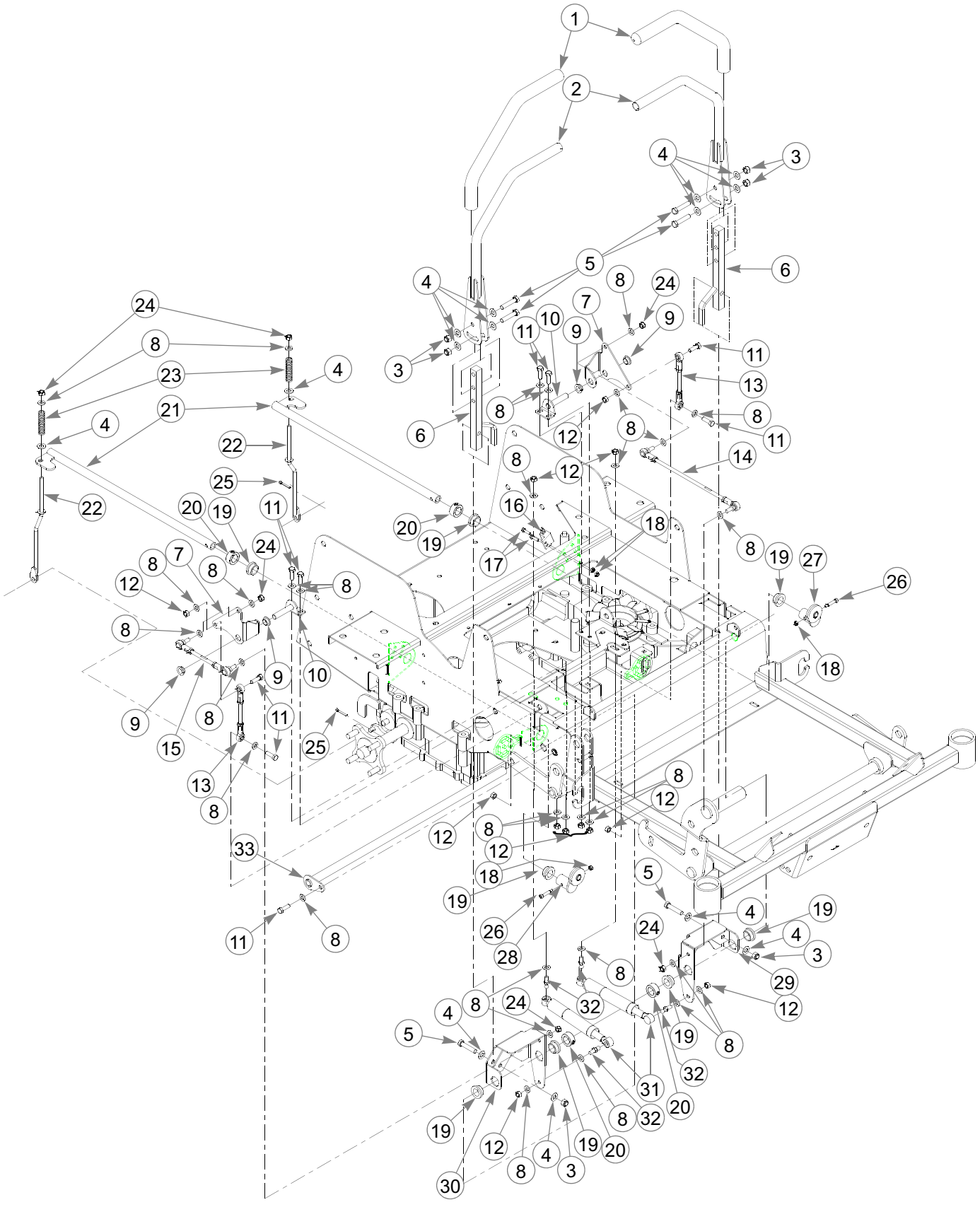
Deck Lift Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	348318	348318	1	STOP HANDLE
2	348284	348284	1	HEIGHT ADJUSTOR STOP
3	781294	781294	7	CLIP E, 1.00 X .625 X .050
4	784686	784686	6	FW .812 X 1.469 X .134 THK ZNYC
5	782995	018846	2	DECK LIFT SPRING
6	055749	055749	3	CS .437-14 X 1.750 HX G5 ZNYC
7	360131	360131	4	DECK LIFT CHAIN
8	704643	704643	8	NT .437-14 HX FLG ZN
9	781831	781831	1	CS.437-14 X 1.750 FULTH G5 ZNYC
10	781229	781229	1	CE .750 X 2.25 X 1.75 HEADLESS
11	784488	784488	1	DECK LIFT INDICATOR
12	756270	756270	1	CS .312-18 X 1.50 FLTHR GR5 ZNYC
13	034272	034272	1	NT .312-18 HX G5 ZNYC
14	348458	348458	1	DECK LEVELER YOKE
15	767962	767962	2	FW .531 X 1.063 X .090 SAE HD ZN
16	015495	015495	4	GREASE FITTING STRAIGHT

NOTES:

1. Apply grease to zerks (see owners manual).

Steering and Brake Assembly



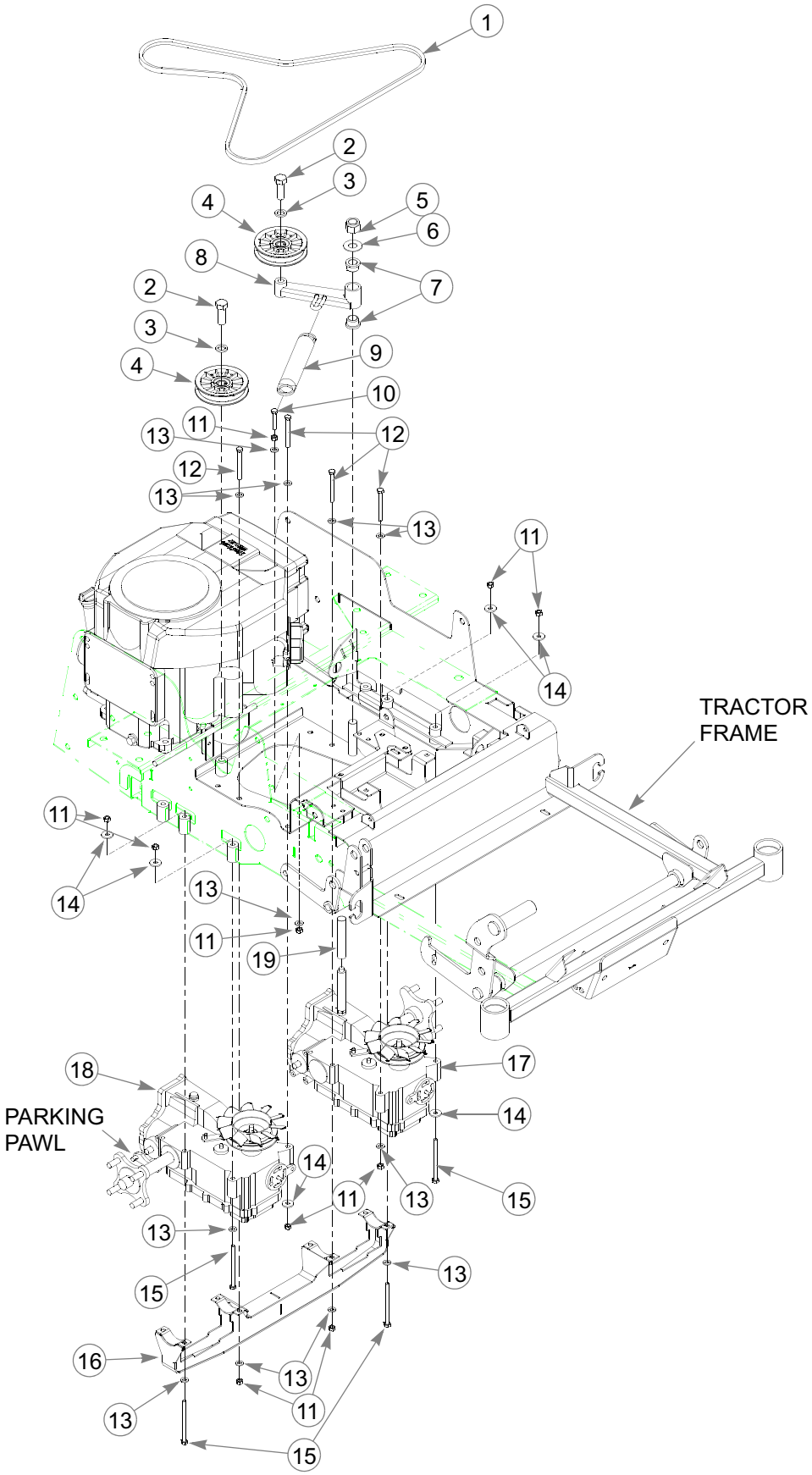
Steering and Brake Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781260	N/A	2	STEERING BAR GRIP
3 2	360487	360487	2	STEERING BAR
3	086660	086660	6	NT .375-16 HX LK NY
4	767954	767954	14	FW .406 X .812 X .060 SAE HD ZN
5	705178	705178	6	CS .375-16 X 1.750 HX G5 ZNYC
6	363812	363812	2	STEER ARM SUPPORT
1 7	360677	360677	2	STEERCRANK LEVER
8	768523	768523	31	FW .343 X .687 X .051/.080 HD ZNYC
9	768259	N/A	4	INGUS BUSHING, #MFI-0810-05
10	362251	362251	2	CRANK PIVOT
11	036236	036236	9	CS .312-18 X 1.000 HX G5 ZNYC
12	034272	034272	12	NT .312-18 HX G5 ZNYC
13	784405	784405	2	FIXED ASSEMBLY PUMP ROD
14	784355	784355	1	LH PUMP ROD ADJUSTER ASSEMBLY
15	784371	784371	1	RH PUMP ROD ADJUSTER ASSEMBLY
16	781211	781211	2	PUSH BUTTON SWITCH
17	063198	063198	4	CS 10-24 X .75 HXFLK ZNYC
18	059832	059832	6	NT #10-24 HX NL ZN
19	770867	770867	8	PLASTIC BUSHING, .750 X 1.00 X .50
20	784439	784439	4	LOCK COLLAR .750"
21	359737	359737	2	BRAKE TUBE
22	359745	359745	2	BRAKE LINK
23	784421	784421	2	BRAKE TENSION SPRING
24	023655	023655	6	NT .312-24 HX NL ZNYC
25	017251	017251	2	CP .156D X 1.000 LG HML ZN
26	785162	785162	2	SB .250 X 1.00 SH #10-24 ZNYC
2 27	787879	787879	1	LH ROLLER ARM
2 28	787887	787887	1	RH ROLLER ARM
29	363176	363176	1	LEFT STEER ARM SUPPORT
30	361550	361550	1	RIGHT STEER ARM SUPPORT
31	783696	783696	2	CENTERING DAMPENER
32	781922	781922	4	DAMPER BALL STUD
33	361295	361295	1	PIVOT TUBE

NOTES:

1. Includes two (2) of 768259 (Ingus Bushing, #MFI-0810-05).
2. Includes 078386 FW and 784819 Retaining Ring.
3. Includes Item 1 (781260 Steering Bar Grip).

Hydro Transmission Installation



Hydro Transmission Installation

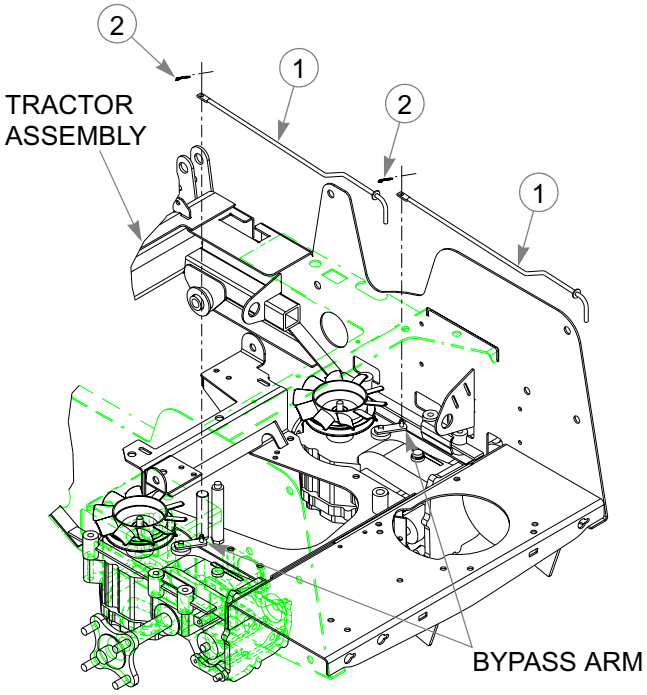
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784231	784231	1	A-SECTION PUMP BELT
2	025007	025007	2	CS .625-11 X 1.750 HX G5 ZNYC
3	028118	028118	2	FW .62 X 1.00 X .134 ZNYC
4	784827	784827	2	4.00"OD, 5/8"ID IDLER PULLEY
5	061101	061101	1	NT .750-10 HX NL ZN
6	025296	025296	1	FW .760 X 1.625 X .08 ZNYC
7	781153	781153	2	UHMW BUSHING
8	363788	363788	1	PUMP IDLER
9	781302	781302	1	IDLER SPRING
10	050161	050161	1	CS .312-18 X 1.750 HX G5 ZNYC
11	034272	034272	14	NT .312-18 HX G5 ZNYC
12	043067	043067	6	CS .312-18 X 3.00 HX G5 ZNYC
13	768523	768523	14	FW .343 X .687 X .051/.080 HD ZNYC
14	712927	712927	10	FW .344 X 1.00 X .12 HRD ZNYC
15	785113	785113	6	CS .312-18 X 4.250 HX G5 ZNYC
16	361212	361212	1	LOWER MOUNT SUPPORT
17	788067	788067	1	LEFT PUMP/MOTOR COMBO
18	788059	788059	1	RIGHT PUMP/MOTOR COMBO
19	786301	786301	1	IZT BREATHER SLEAVE

NOTES:

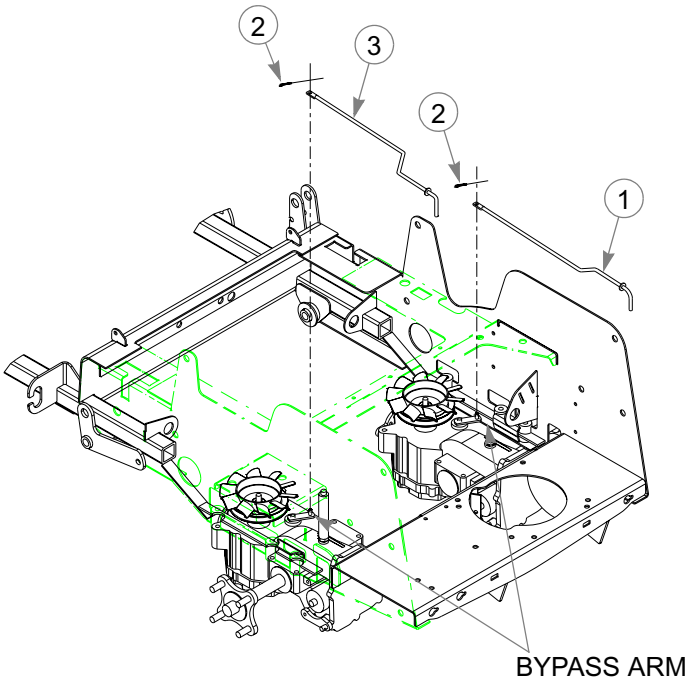
1. Service parts for Left/Right Pump/Motor Combo:

784306	RIGHT HAND PARKING PAWL
784314	LEFT HAND PARKING PAWL
785725	FAN
785717	PULLEY
785733	SEAL KIT

Towlink Installation



FOR MOWERS WITH HONDA ENGINES



FOR MOWERS WITH KOHLER ENGINES

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786269	786269	2	TOW RELEASE LINK
2	066878	066878	2	CP .094 X .500 LG HML ZN
3	794651	794651	1	TOW LINK, LH FST KOH

NOTES:

Chapter 4 Contents

Honda 18 & 20 HP Engine Installation 4-2

Honda16 HP Engine Installation 4-4

Briggs & Stratton 17.5 HP Engine Installation 4-6

Kohler 18 & 20 HP Engine Installation. 4-8

Fuel System Installation. 4-12

Instrument Panel Assembly/Installation. 4-14

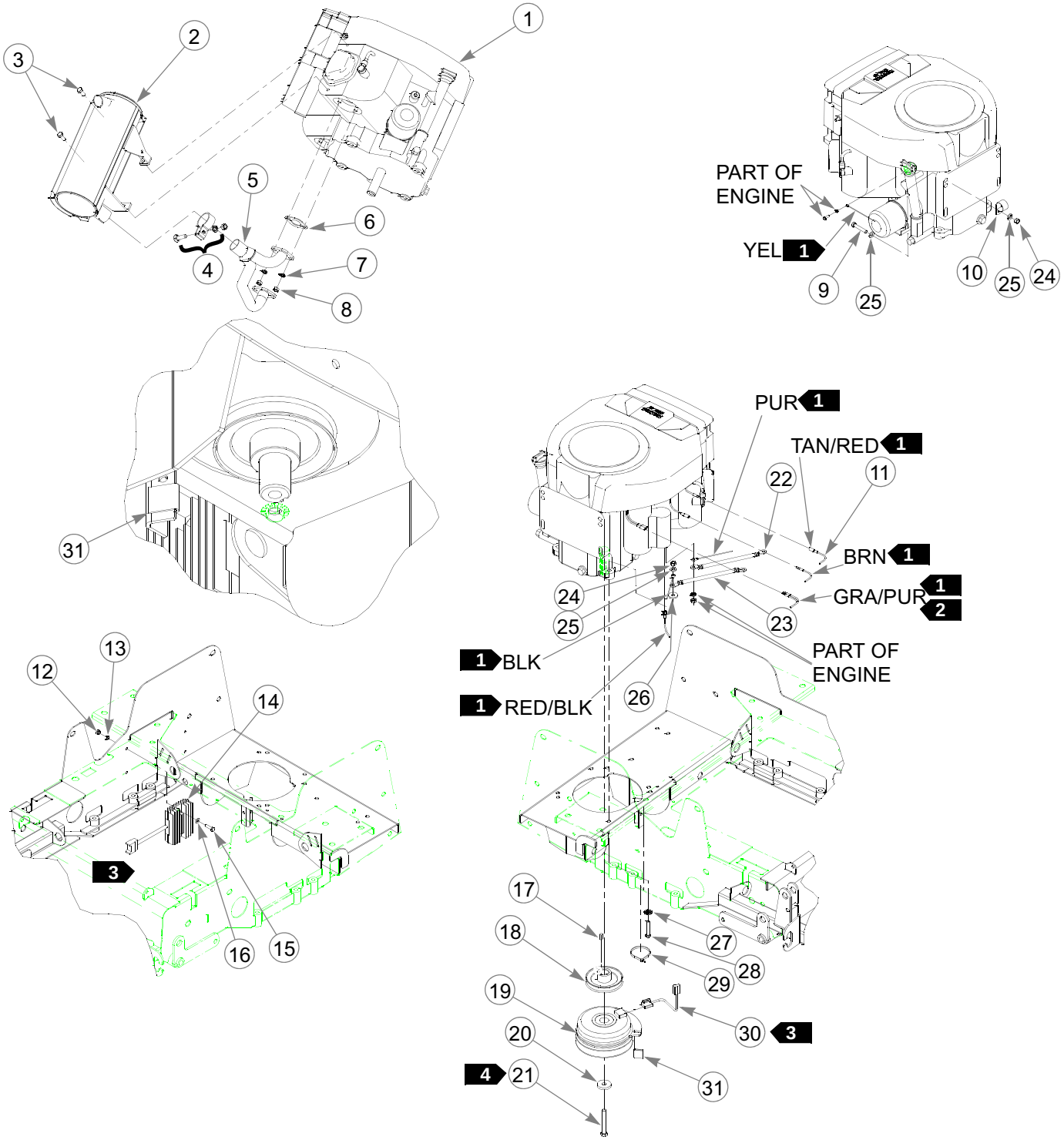
Honda 18 & 20 HP Electrical Schematic (784868) 4-16

Honda 16 HP Electrical Schematic (786178) 4-18

Briggs & Stratton 17.5 HP Electrical Schematic (786186). 4-20

Kohler 18 & 20 HP Electrical Schematic 4-22

Honda 18 & 20 HP Engine Installation



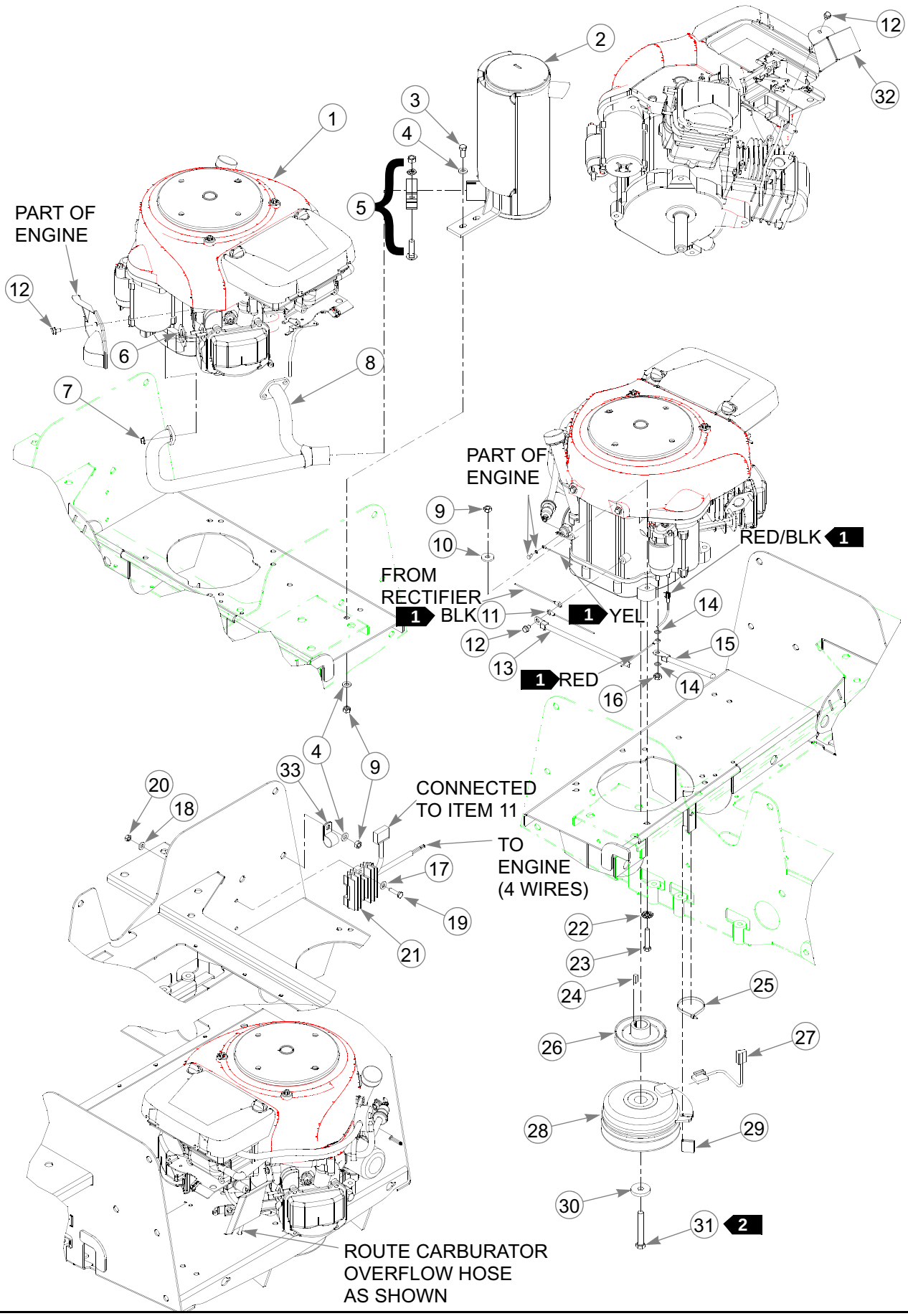
Honda 18 & 20 HP Engine Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784629	784629	1	HONDA 20HP ENGINE
	784611	784611	1	HONDA 18HP ENGINE
2	784843	784843	1	18/20 HONDA MUFFLER
3	720177	720177	2	CS M 8-1.25 X 20 10.9 HX FL ZNYC
4	785378	785378	1	EXHAUST PIPE CLAMP
5	784959	784959	1	FASTRAK MUFFLER MANIFOLD
6	785543	N/A	2	HONDA (20) MUFFLER GASKET
7	017004	N/A	4	LW .312 MED SPRING ZNYC
8	782664	N/A	4	NT M8-1.25 HX STAINLESS STEEL
9	050161	050161	1	CS .312-18 X 1.75 HX G5 ZNYC
10	000398	000398	1	CLAMP
11	784868	784868	1	FASTRAK WIRE HARNESS
12	024927	024927	2	NT .250-20 HX GR 5 ZNYC
13	017038	017038	2	LW .250 MED SPRING ZNYC
14	785477	N/A	1	HONDA 20 AMP RECTIFIER
15	056077	056077	2	CS .250-20 X 1.00 HX G5 ZNYC
16	768515	768515	2	FW .250 X .560 X .04 SAE ZNYC
17	712372	712372	1	KEY 1/4 SQ X 0.66 LONG
18	786616	786616	1	PUMPDRIVE PULLEY
19	784835	784835	1	FASTRAK CLUTCH
20	763417	763417	1	FW .454 X 1.50 X .250
21	785048	785048	1	CS .437-20 X 3.00 HX G5 ZNYC
22	785063	N/A	1	POSITIVE BATTERY CABLE
23	785071	N/A	1	NEGATIVE BATTERY CABLE
24	034272	034272	5	NT .312-18 HX G5 ZNYC
25	768523	768523	3	FW .343 X .687 X .051/.080 HD ZNYC
26	712927	712927	4	FW .344 X 1.00 X .12 HRD ZNYC
27	029876	029876	4	LW .312 INT-EXT TOOTH ZNYC
28	052837	052837	4	CS .312-18 X 1.500 HX G5 ZNYC
29	000331	000331	1	SMALL/SHORT WIRE TIE
30	791251	N/A	1	CLUTCH WIRE HARNESS PIGTAIL
31	784918	784918	1	RUBBER BUMPER

NOTES:

1. Part of Item 11 (784868 FasTrak wire harness).
2. Two wires.
3. Connected to Item 11 (784868 FasTrak wire harness).
4. Torque to 45-48 ft-lb.
5. Engine oil capacity; 2.3 US qts. (with filter), see engine manual.
6. Engine speed; High speed - 3450 ±50 RPM.

Honda 16 HP Engine Installation



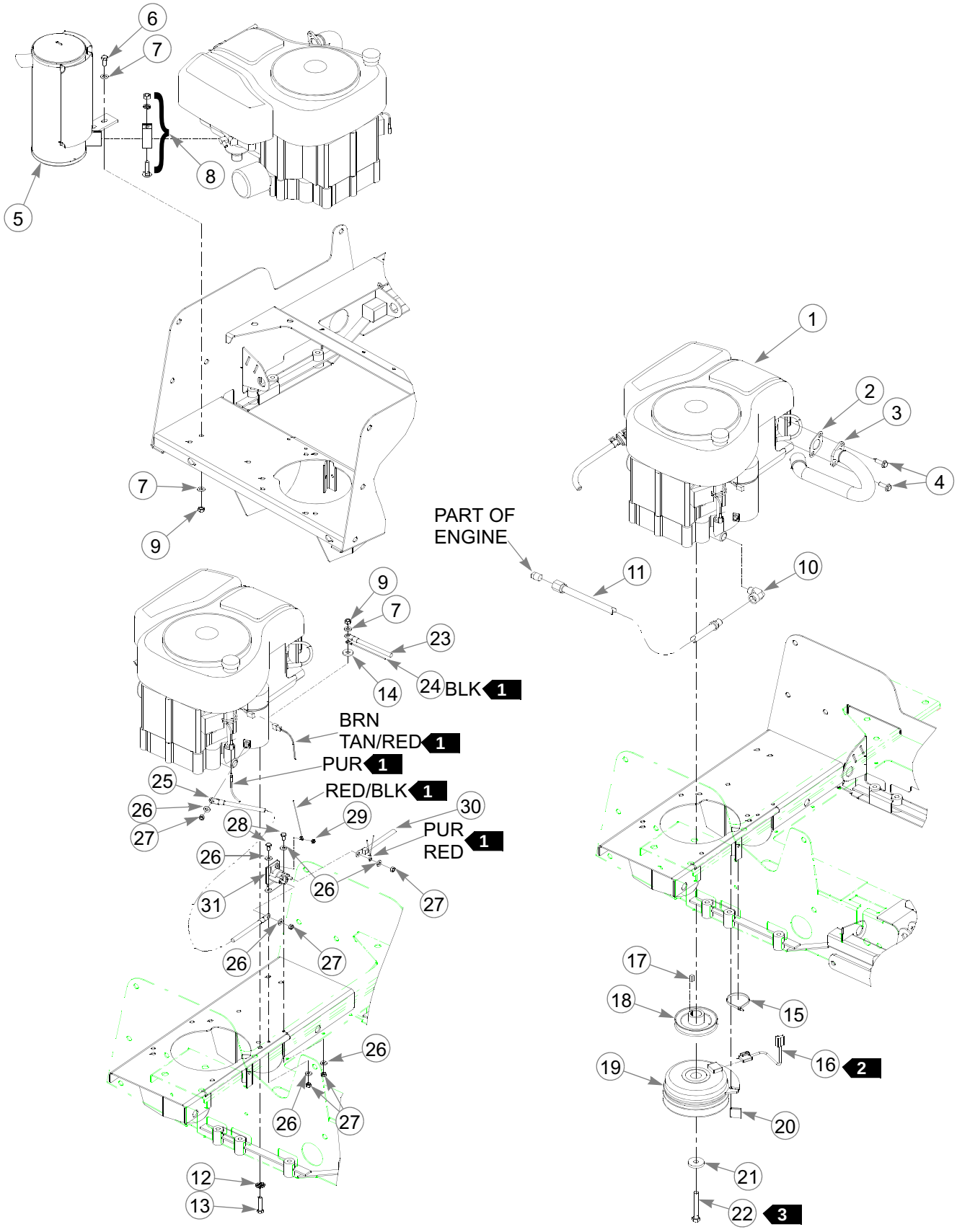
Honda 16 HP Engine Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	785394	785394	1	HONDA 16 HP ENGINE
2	785410	785410	1	16 HONDA MUFFLER
3	034280	034280	2	CS .312-18 X .750 HX G5 ZNYC
4	768523	768523	5	FW .343 X .687 X .051/.080 HD ZNYC
5	785378	785378	1	EXHAUST PIPE CLAMP
6	785543	N/A	2	HONDA MUFFLER GASKET
7	005231	005231	4	NT M6-1.0 X10 HX FLG ZN
8	785402	785402	1	FASTRAK 16 HP MUFFLER MANIFOLD
9	034272	034272	7	NT .312-18 HX G5 ZNYC
10	712927	712927	4	FW .344 X 1.00 X .12 HRD ZNYC
11	786178	786178	1	FASTRAK 16 HONDA WIRE HARNESS
12	739144	792796		
13	786640	N/A	1	NEGATIVE BATTERY CABLE
14	725267	725267	2	FW .318 X .472 X .047 ZN
15	786632	N/A	1	POSITIVE BATTERY CABLE
16	782664	782664	1	NT M8-1.25 HX STAINLESS STEEL
17	768515	768515	2	FW .250 X .560 X .04 SAE ZNYC
18	017038	017038	2	LW .250 MED SPRING ZNYC
19	056077	056077	2	CS .250-20 X 1.00 HX G5 ZNYC
20	024927	024927	2	NT .250-20 HX GR.5 ZNYC
21	787267	N/A	1	HONDA 16 AMP RECTIFIER
22	029876	029876	4	LW .312 INT-EXT TOOTH ZNYC
23	050161	050161	4	CS .312-18X1.750 HX G5 ZNYC
24	712372	712372	1	KEY 1/4 SQ X 0.66 LONG
25	000331	000331	1	SMALL/SHORT WIRE TIE
26	786616	786616	1	PUMPDRIVE PULLEY
27	791251	N/A	1	CLUTCH WIRE HARNESS PIGTAIL
28	784835	784835	1	FASTRAK CLUTCH
29	784918	784918	1	RUBBER BUMPER
30	763417	763417	1	FW .454 X 1.50 X .250
31	785048	785048	1	CS .437-20 X 3.00 HX G5 ZNYC
32	378273	378273	1	16HP EXHAUST HEAT SHIELD
33	043570	043570	1	SINGLE HOSE CLIP

NOTES:

1. Part of item 11 (786178 FasTrak 16 Honda Wire Harness).
2. Torque to 45-48 ft-lb.
3. Engine oil capacity; 1.37 US qts. (with filter), 1.22 US qts. (w/o filter), see engine manual.
4. Engine speed; High speed - 3450 ±50 RPM.

Briggs & Stratton 17.5 HP Engine Installation



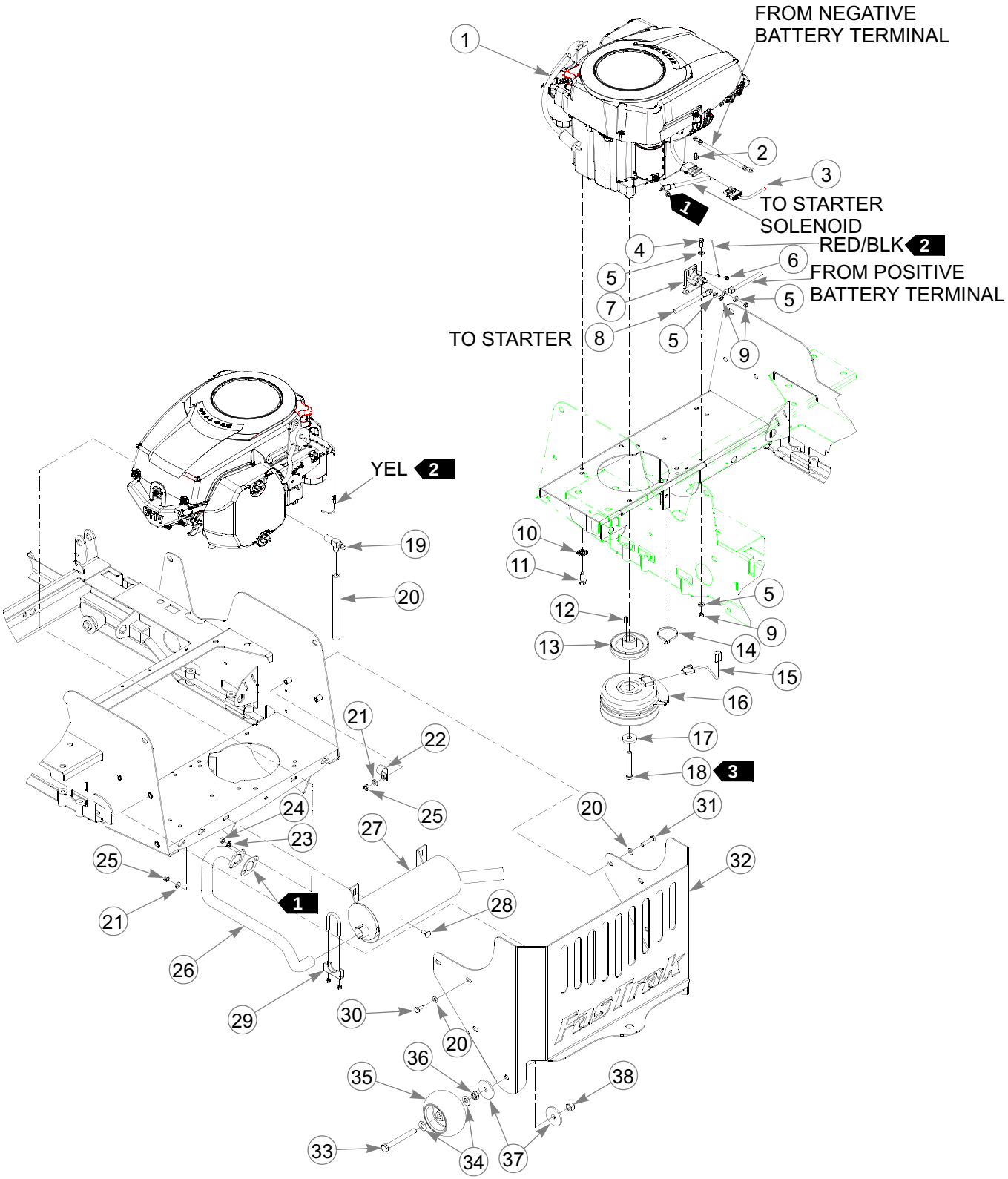
Briggs & Stratton 17.5 HP Engine Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786004	786004	1	BRIGGS 17.5 HP ELS SINGLE ENGINE
2	780841	780841	1	MUFFLER GASKET
3	786012	786012	1	17.5 HP BRIGGS MUFFLER MANIFOLD
4	016287	016287	2	CS .312-18 X 1.00 HXFLK ZNYC
5	785410	785410	1	MUFFLER
6	034280	034280	2	CS .312-18 X .75 HX G5 ZNYC
7	768523	768523	5	FW .343 X .687 X .051/.080 HD ZNYC
8	785378	785378	1	1.50" MUFFLER CLAMP
9	034272	034272	6	NT .312-18 HX G5 ZNYC
10	786954	786954	1	FITTING 90, -6MPT/-6FPT
11	771378	771378	1	16.00” PUSHLOC HYDRO HOSE
12	029876	029876	4	LW .312 INT-EXT TOOTH ZNYC
13	050161	050161	4	CS .312-18X1.750 HX G5 ZNYC
14	712927	712927	4	FW .344 X 1.00 X .12 HRD ZNYC
15	000331	000331	1	SMALL, SHORT WIRE TIE
16	791251	N/A	1	CLUTCH PIGTAIL WIRE HARNESS
17	712372	712372	1	1/4 SQ X 0.66 LONG KEY
18	786616	786616	1	PUMPDRIVE PULLEY
19	784835	784835	1	FASTRAK CLUTCH
20	784918	784918	1	RUBBER BUMPER
21	763417	763417	1	FW .454 X 1.50 X .250
22	785048	785048	1	CS .437-20 X 3.00 HX G5 ZNYC
23	785071	N/A	1	NEGATIVE BATTERY CABLE
24	786186	786186	1	FASTRAK 17.5 WIRE HARNESS
25	768820	768820	1	BATTERY CABLE
26	768515	768515	7	FW .281 X .625 X .051/.080HD ZNYC
27	024927	024927	5	NT .250-20 HX GR.5 ZNYC
28	055947	055947	2	CS .250-20 X .500 HX G5 ZNYC
29	044255	044255	1	NT #10-32 HX ZN
30	786632	N/A	1	POSITIVE BATTERY CABLE
31	030817	030817	1	STARTER SOLENOID

NOTES:

1. Part of Item 24 (786186 FasTrak 17.5 HP B & S Wire Harness).
2. Connected to Item 24 (786186 FasTrak 17.5 HP B & S Wire Harness).
3. Torque to 45-48 ft-lb.
4. Engine oil capacity; 1.5 US qts. (see engine manual).
5. Engine speed; High speed - 3450 ±50 RPM.

Kohler 18 & 20 HP Engine Installation



Kohler 18 & 20 HP Engine Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	792713	792713	1	KOHLER 18 HP SV540S ENGINE
	792721	792721	1	KOHLER 20 HP SV600S ENGINE
2	739144	739144	1	CS M 6-1.0 X 12 10.9 HXFL ZN
3	792754	792754	1	FST 44/52 KOHLER WIRE HARNESS
4	055939	055939	2	CS .250-20 X .750 HX G5 ZNYC
5	768515	768515	6	FW .281 X .625 X .051/.080 HD ZNYC
6	044255	044255	1	NT #10-32 HX ZN
7	030817	030817	1	STARTER SOLENOID
8	792762	792762	1	RED 9" BATTERY CABLE
9	024927	024927	4	NT .250-20 HX GR.5 ZNYC
10	793885	793885	4	LW .375 INT-EXT TOOTH
7 11	036244	792788	4	CS .375-16X1.000 HX G5 ZNYC
12	712372	712372	1	KEY 1/4 SQ X 0.66 LONG
13	786616	786616	1	PUMPDRIVE PULLEY
14	000331	000331	1	SMALL/SHORT WIRE TIE
15	791251	N/A	1	CLUTCH PIGTAIL, WIRE HARNESS
16	784835	784835	1	FASTRAK CLUTCH
17	763417	763417	1	FW .454 X 1.50 X .250
18	785048	785048	1	CS .437-20 X 3.00 HX G5 ZNYC
19	796516	796516	1	VALVE,OIL DRAIN 3/8-18
20	104786	104786	1	OIL DRAIN HOSE
21	768523	768523	9	FW .343 X .687 X .051/.080 HD ZNYC
22	043570	043570	1	SINGLE HOSE CLIP
23	017004	017004	2	LW .312 MED SPRING ZNYC
24	782664	782664	2	NT M8-1.25 HX STAINLESS
25	034272	034272	3	NT .312-18 HX G5 ZNYC
26	792739	792739	1	18/20HP KOHLER COURAGE MANIFOLD
27	792747	792747	1	18/20HP KOHLER COURAGE MUFFLER
28	016253	016253	2	CB .312-18 X .750 FUL ZN
29	794180	794180	1	1.125" EXHAUST CLAMP
30	034280	034280	5	CS .312-18 X .750 HX G5 ZNYC
31	756270	756270	1	CS .312-18 X 1.50 FLTHR GR5 ZNYC
32	337444	337444	1	FST - KOHLER ENGINE GUARD
33	781708	N/A	2	CS .500-13 X 4.25 HX G5 ZNYC
34	767962	N/A	4	FW .531 X 1.063 X .090 SAE HD ZN
35	031997	N/A	2	ANTI-SCALP WHEEL
36	053199	N/A	2	NT .500-13 HX JAM ZNYC
37	344267	344267	4	FW .510 X 2.15 X .187 SPL ZNYC
38	781567	781567	2	NT .50-13 HX LK NY ZNYC
6	788166	788166	2	ANTI SCALP WHEEL ASSY

NOTES:

1. Included with engine.
2. Part of item 3 (792754 FasTrak Kohler wire harness).
3. Torque to 45-48 ft-lb.
4. Engine oil capacity: 1.6 US qts.
5. Engine speed: 3600 ±50 RPM.

6. Includes Items 31 through 33.
7. Torque to 30-35 ft.-lbs. Do not reuse factory installed screw when performing service to mower requiring removal of engine, replace with 3/8-16 X 1.0 long grade 5 cap screw.

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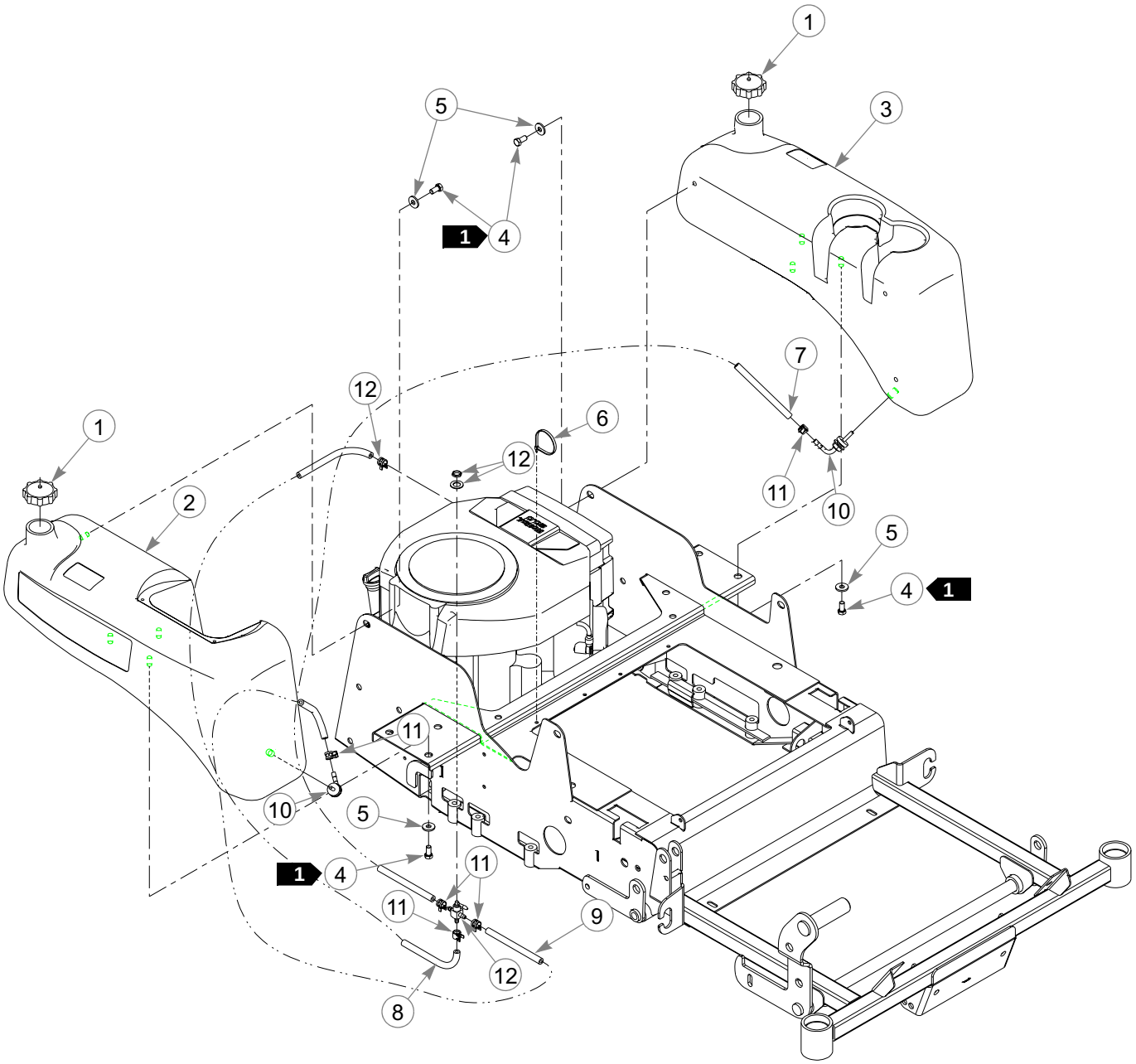
Fuel System Installation



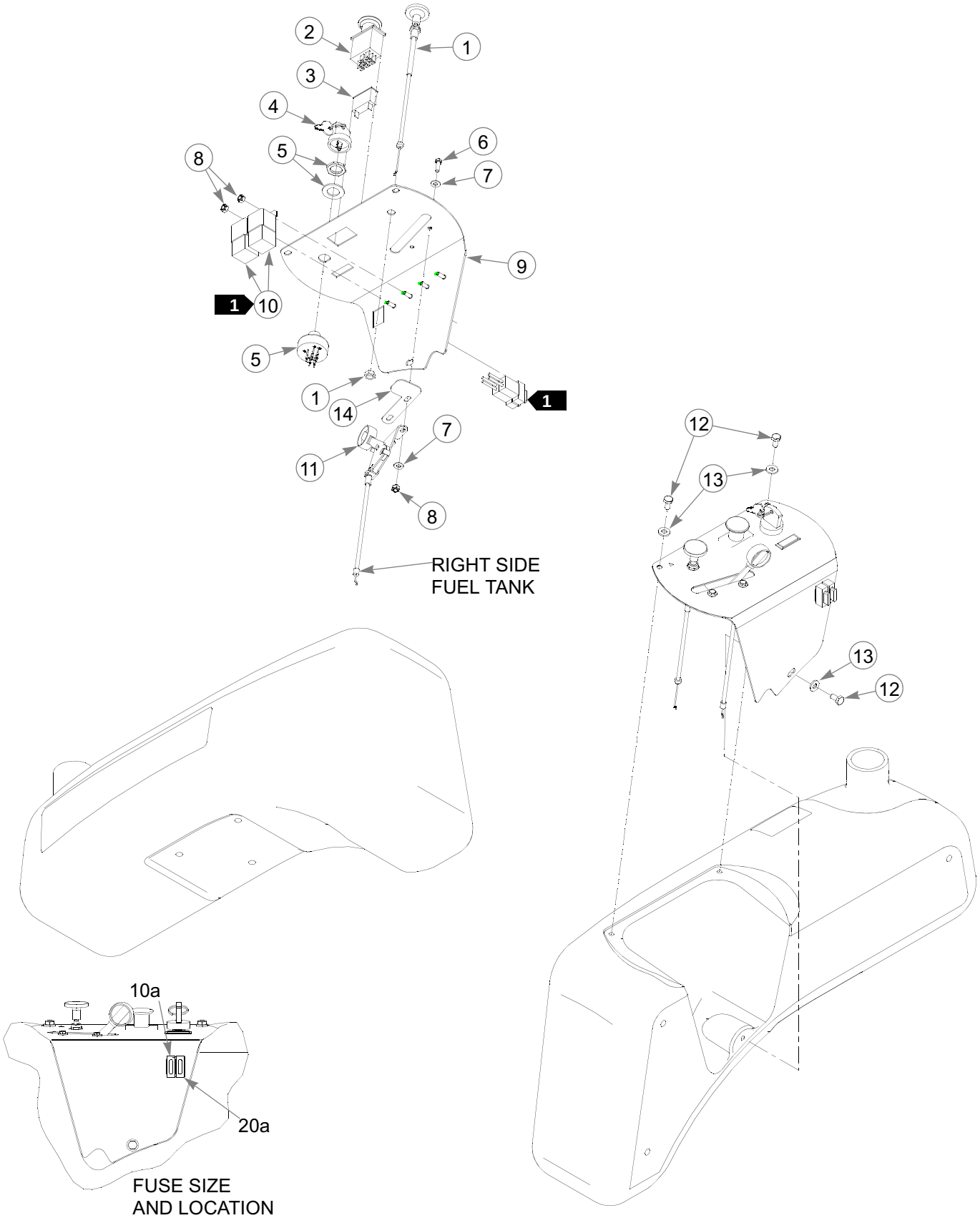
Fuel System Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784181	784181	2	FUEL TANK CAP
2	796318	796318	1	R.S. FUEL TANK
3	796326	796326	1	L.S. FUEL TANK
4	055822	055822	12	CS .375-16 X .750 HX G5 ZNYC
5	712919	712919	12	FW .406 X 1.00 X .12 HRD ZNYC
6	000331	000331	5	SMALL/SHORT WIRE TIE
7	015818	015818	1	FUEL LINE, 33”
8	015818	015818	1	FUEL LINE, 35" 3
	015818	015818	1	FUEL LINE, 21" 4
	015818	015818	1	FUEL LINE, 12" 5
9	015818	015818	1	FUEL LINE, 14"
2 10	791277	N/A	2	FUEL TANK 90° FITTING
11	000323	000323	6	CLIP
12	745059	745059	1	FUEL VALVE 3-WAY

NOTES:

1. Torque to 20 ft.-lbs.
2. Supplied with new fuel tank.
3. Length for mowers with Honda engines only.
4. Length for mowers with Briggs & Stratton engines only.
5. Length for mowers with Kohler engines only.

Instrument Panel Assembly/Installation



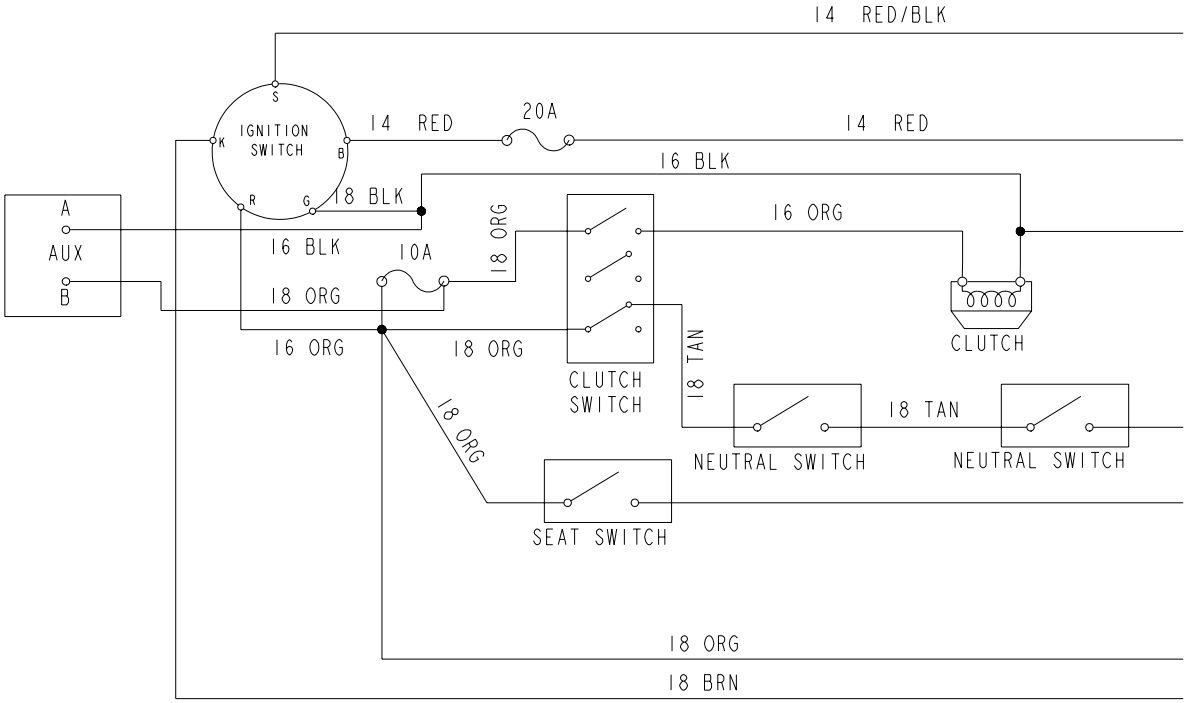
Instrument Panel Assembly/Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	785196	785196	1	CHOKE CABLE (HONDA 18 & 20 AND KOHLER ENGINES)
	785030	785030	1	CHOKE CABLE (HONDA 16) ENGINE
	786657	786657	1	CHOKE CABLE (17.5 BRIGGS, STRATTON ENGINE)
2	776476	776476	1	PTO SWITCH
3	712257	712257	1	RED INDICATOR LIGHT
4	785808	785808	1	KEY ASSEMBLY
5	045898	045898	1	KEY SWITCH
6	714998	714998	2	MS #10-24 X .625 HX ZN
7	704932	704932	4	FW .219 X .500 X .048 ZNYC
8	059832	059832	4	NT #10-24 HX NL ZN
9	365411	365411	1	INSTRUMENT PANEL
10	026237	N/A	2	RELAY
11	768879	768879	1	ENGINE CONTROLS CABLE (HONDA 18 & 20, KOHLER AND , & 17.5 BRIGGS)
	787788	787788	1	THROTTLE CABLE ASSEMBLY (HONDA 16 ONLY)
12	055947	055947	3	CS .250-20X .500 HX G5 ZNYC
13	768515	768515	3	FW .281 X .625 X .051/.080 HD ZNYC
2 14	102707	102707	1	CE THROTTLE STOP

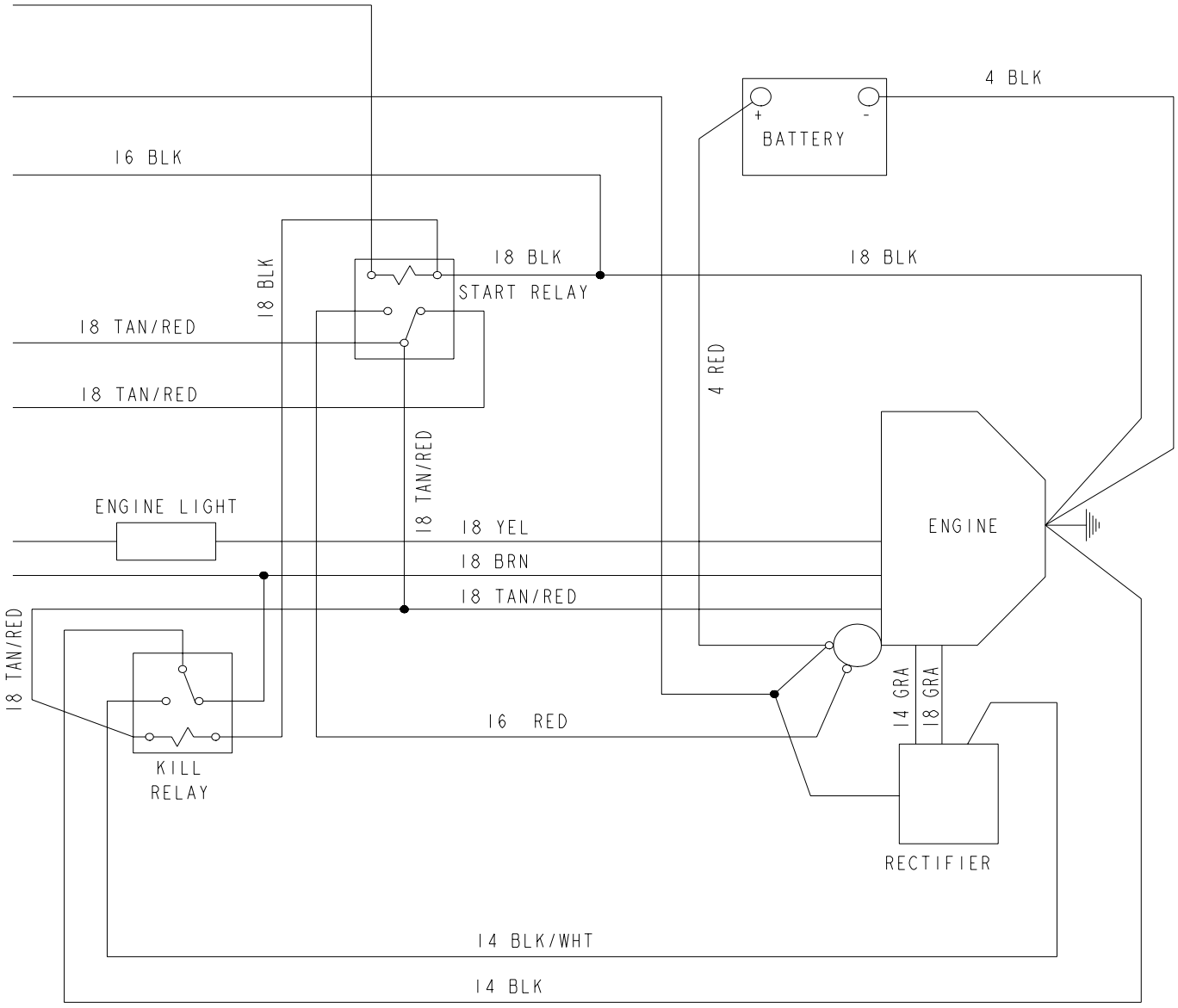
NOTES:

1. Part of 784868, 786186, 792754 or 786178 (Tractor Wire Harness).
2. Used on CE models only.

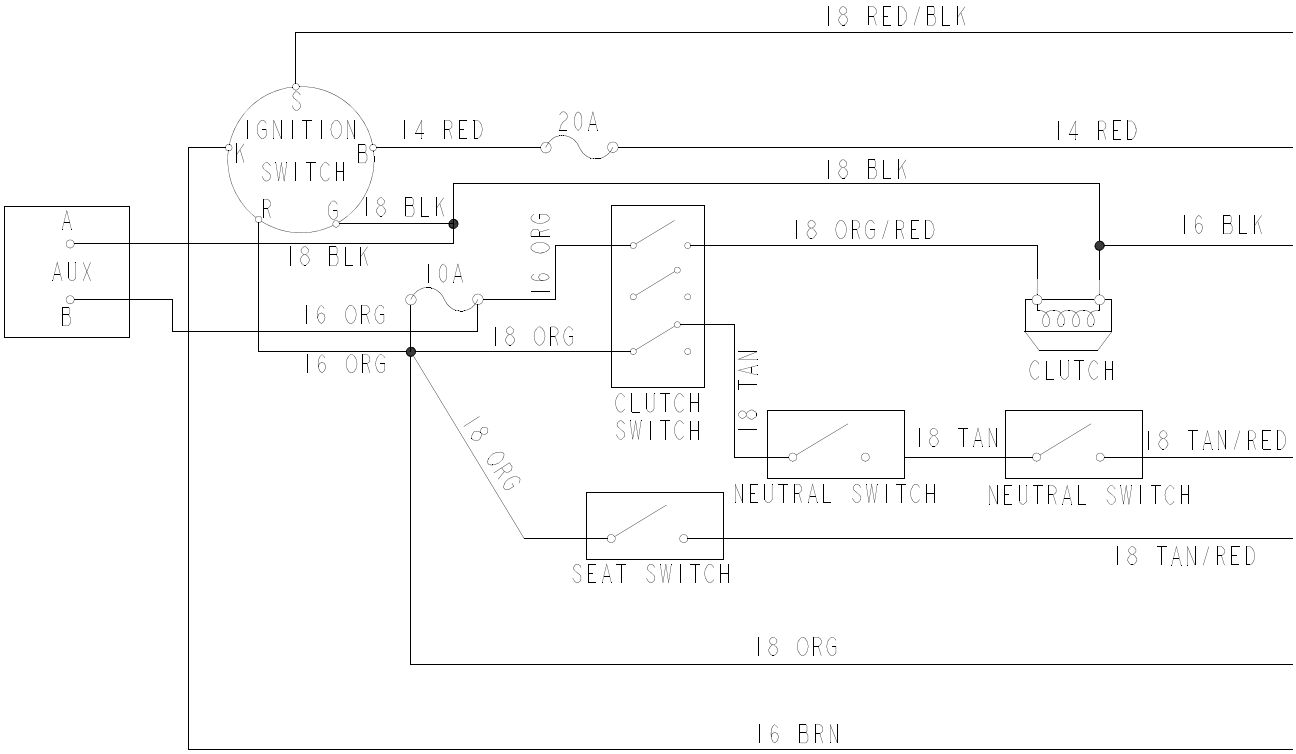
Honda 18 & 20 HP Electrical Schematic (784868)



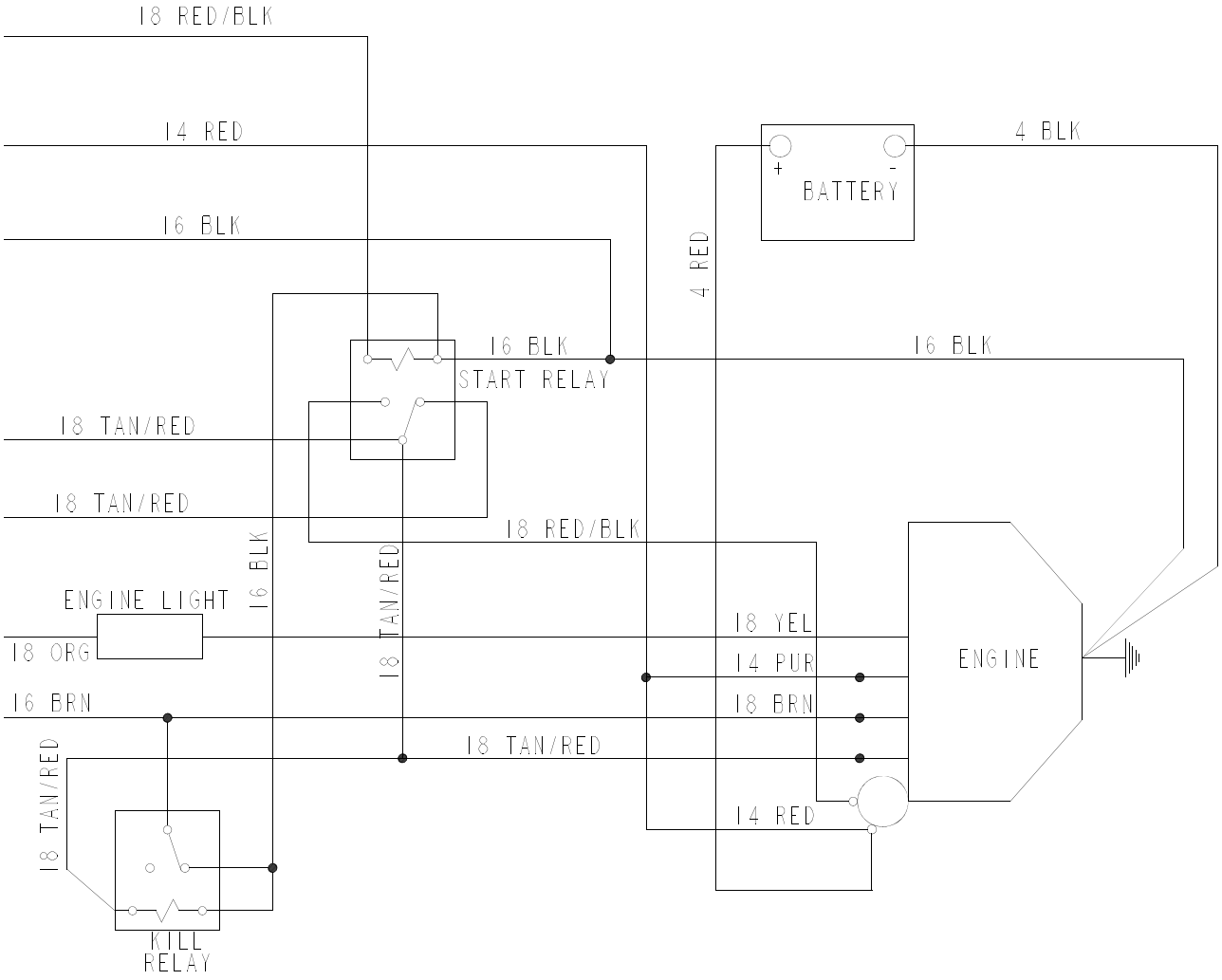
Honda 18 & 20 HP Electrical Schematic (784868)



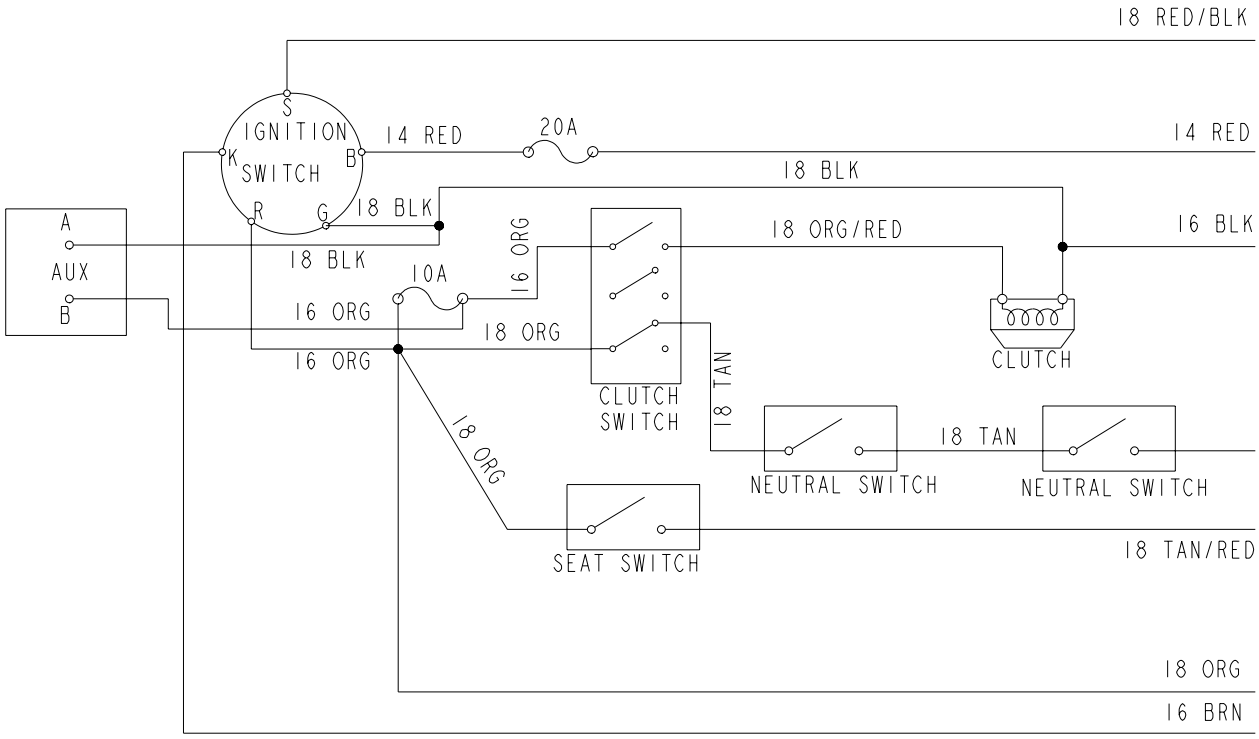
Honda 16 HP Electrical Schematic (786178)



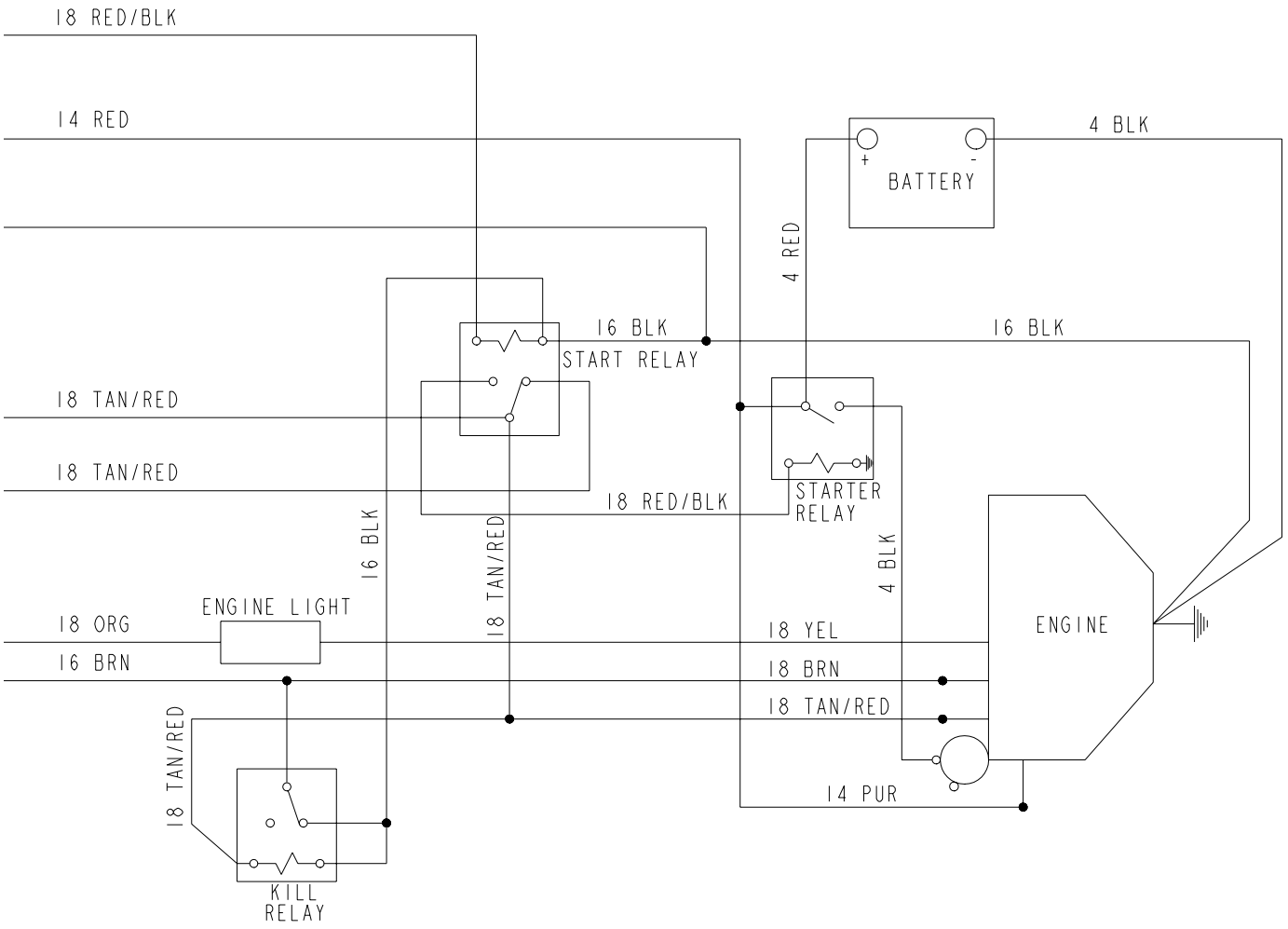
Honda 16 HP Electrical Schematic (786178)



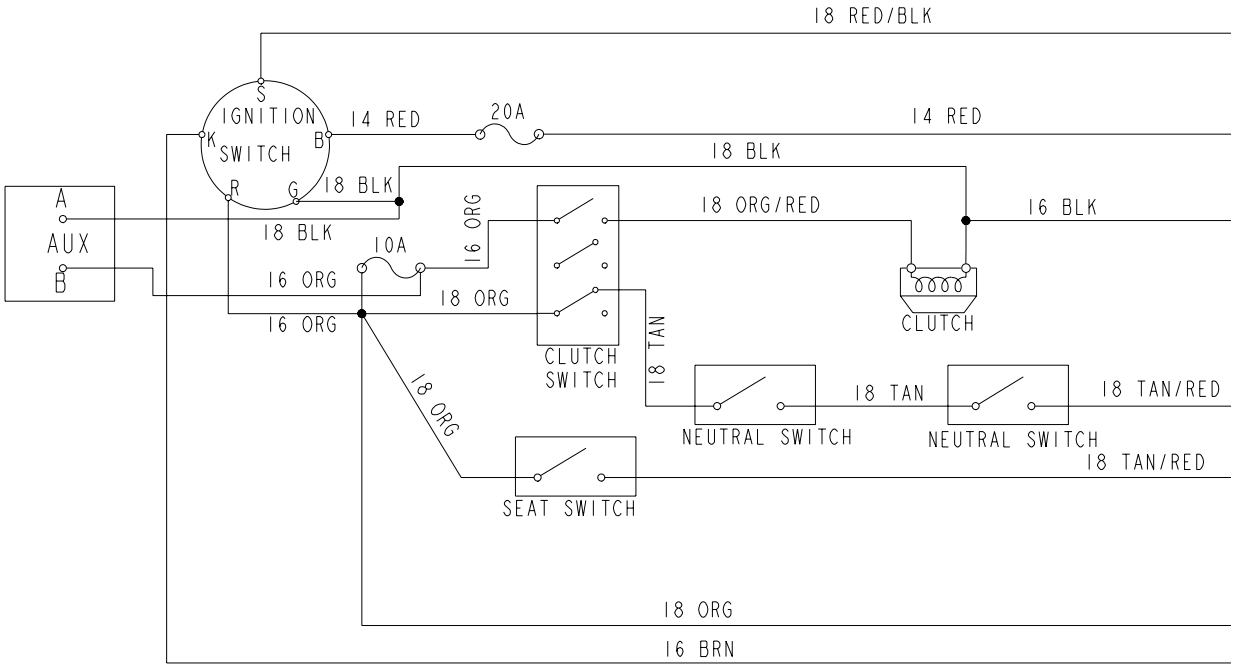
Briggs & Stratton Electrical Schematic (786186)



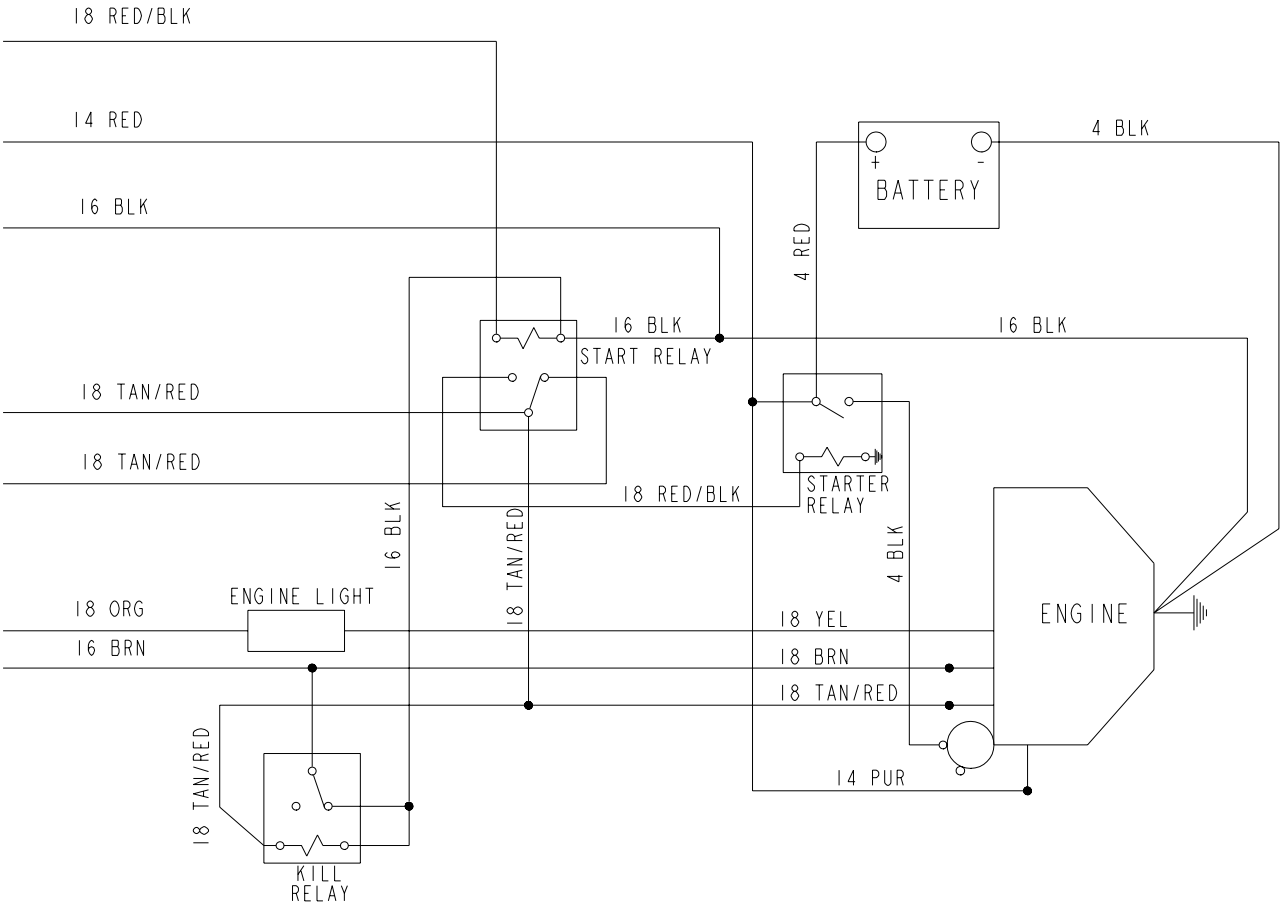
Briggs & Stratton Electrical Schematic (786186)



Kohler Electrical Schematic (792754)



Kohler Electrical Schematic (792754)



Chapter 5 Contents

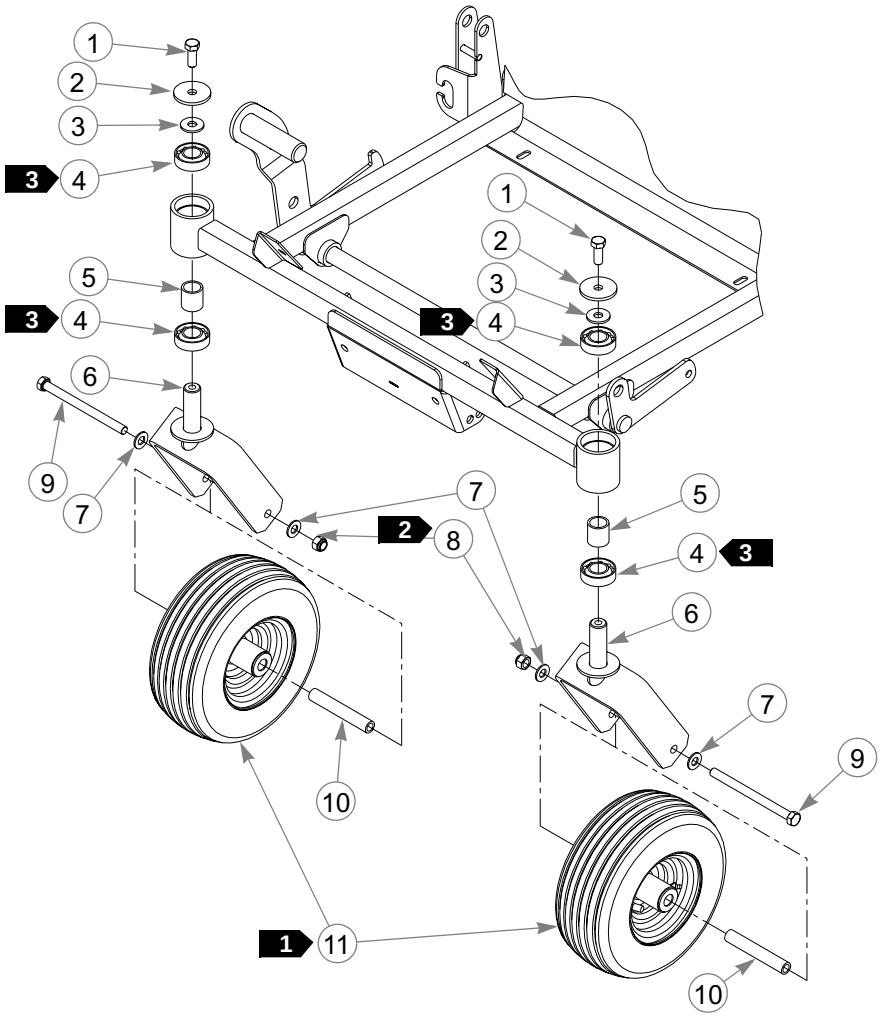
Front Wheel Assembly. 5-2

Front Wheel Breakdown—768044. 5-3

Drive Wheel Assembly—783134 5-4

Anti-Rollover Wheel Assembly—Honda and Briggs 5-5

Front Wheel Assembly

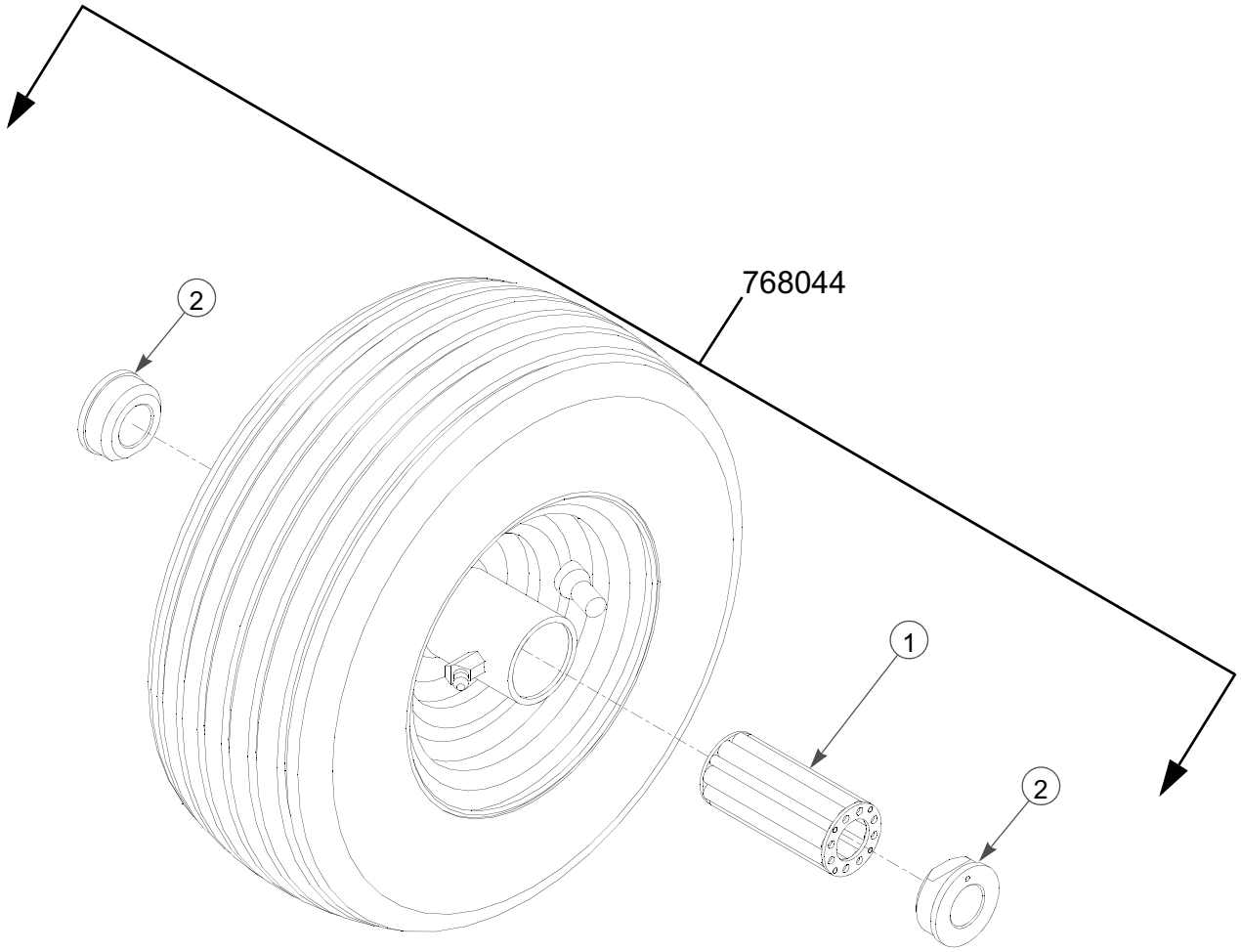


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	705954	705954	2	CS .500-13 X 1.25 HX G5 ZNYC
2	344267	344267	2	FW .510 X 2.15 X .187 SPL ZNYC
3	712976	712976	2	FW .531 X 1.375 X .125 ZNYC
4	784223	784223	4	BEARING
5	784603	784603	2	SPACER
6	339689	339689	2	CASTER FORK
7	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
8	781567	781567	2	NT .50-13 HX LK NY ZNYC
9	042630	042630	2	CS .500-13 X 6.50 HX G5 ZNYC
10	306969	306969	2	GAGE WHEEL SPACER
11	768044	768044	2	TIRE/WHL 11 X 4-5 RIBBED

NOTES:

1. Apply grease to zerks.
2. Torque to 75 ft.-lbs.
3. Assemble with extended inner race down.

Front Wheel Breakdown—768044

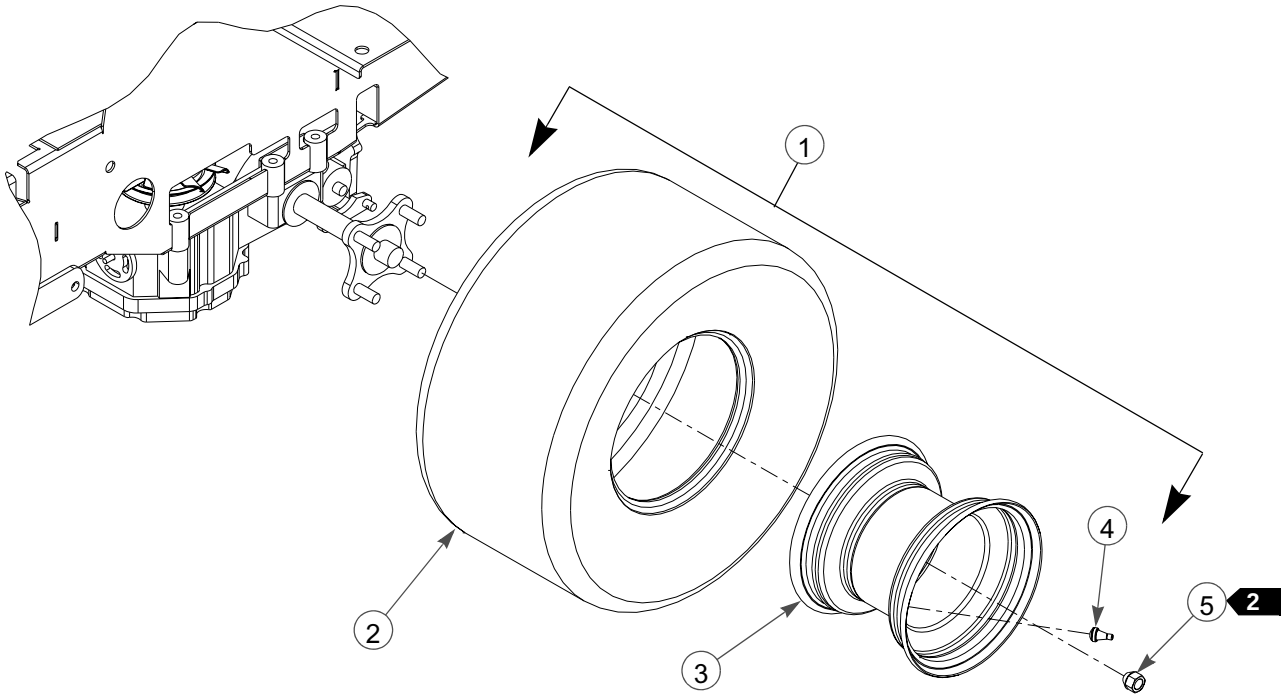


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	772814	N/A	1	3/4" ROLLER BEARING
2	772806	N/A	2	BEARING CAP

NOTES:

1. Inflate tire to 8-10 psi.

Drive Wheel Assembly—783134

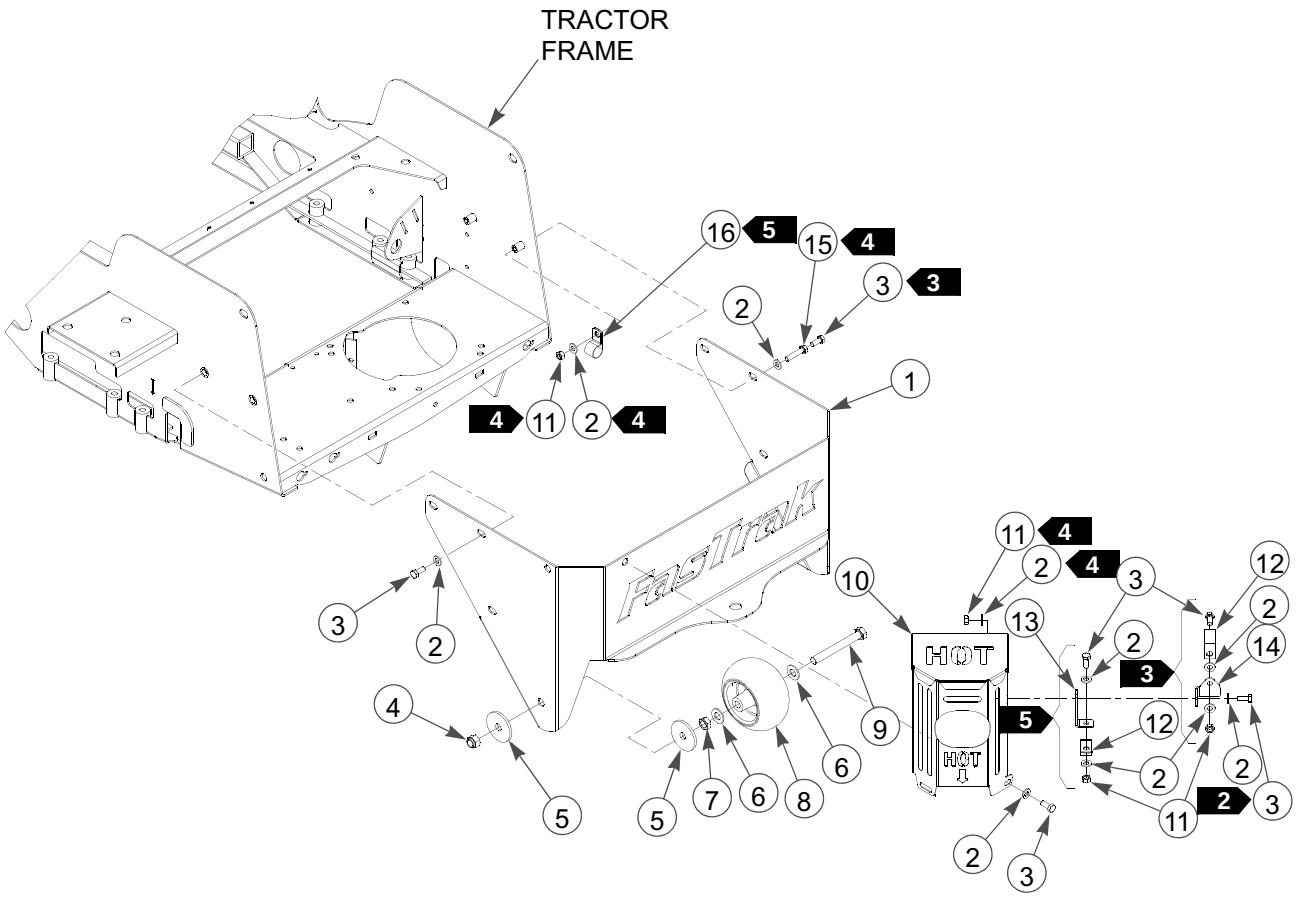


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784264	784264	2	WHEEL/TIRE ASSY 18 X 9.50 (QTY PER 52" TRACTOR)
2	784272	N/A	1	TIRE 18 X 9.5
3	784280	N/A	1	WHEEL
4	019521	N/A	1	TIRE VALVE
5	061077	061077	4	WHEEL NUT (QTY PER WHEEL)
1	783134	783134	2	WHEEL/TIRE ASSY 18 X 8.50 (QTY PER 44" TRACTOR)
2	783142	N/A	1	TIRE 18 X 8.50
3	783159	N/A	1	WHEEL
4	019521	N/A	1	TIRE VALVE
	061077	061077	4	WHEEL NUT (QTY PER WHEEL)

NOTES:

1. Inflate tire to 8-10 psi.
2. Torque to 65 ft-lbs

Anti-Rollover Wheel Assembly—Honda and Briggs



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	364885	N/A	1	ENGINE GUARD
2	768523	768523	12	FW .343 X .687 X .051/.080HD ZNYC
3	034280	034280	9	CS .312-18 X .750 HX G5 ZNYC
4	781567	781567	2	NT .50-13 HX LK NY
5	344267	344267	4	FW .510X 2.15X.187 SPL ZNYC
6	767962	N/A	4	FW .531 X 1.063 X .090 SAE HD ZN
7	053199	N/A	2	NT .500-13 HX JAM ZNYC
8	031997	N/A	2	ANTI-SCALP WHEEL
9	781708	N/A	2	CS .500-13 X 4.250 HX G5 ZNYC
10	365478	365478	1	MUFFLER GUARD
11	034272	034272	3	NT .312-18 HX G5 ZNYC
5	12	000398	000398	1 CLAMP
13	378703	378703	1	CHOKE & THROTTLE CABLE BRACKET
14	377242	377242	1	FUEL LINE MOUNTING BRACKET
15	756270	756270	1	CS .312-18 X 1.50 FLTHR GR5 ZNYC
5	16	043570	043570	1 SINGLE HOSE CLIP
6		000398	000398	1 CLAMP
7 1		788166	788166	2 ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes Items 6 through 9.
2. Bolts to muffler bracket for 18 & 20 HP Honda engines and to item 10 for 16 HP Honda and 17.5 HP Briggs engines.
3. Used on18 & 20 HP Honda only.
4. Used on 16 HP Honda only..
5. Used on 16 HP Honda only. .
6. Used on 17.5 HP Briggs only.
7. See Kohler engine installation for Kohler configuration.

Chapter 6 Contents

52" Deck Assembly 6-2

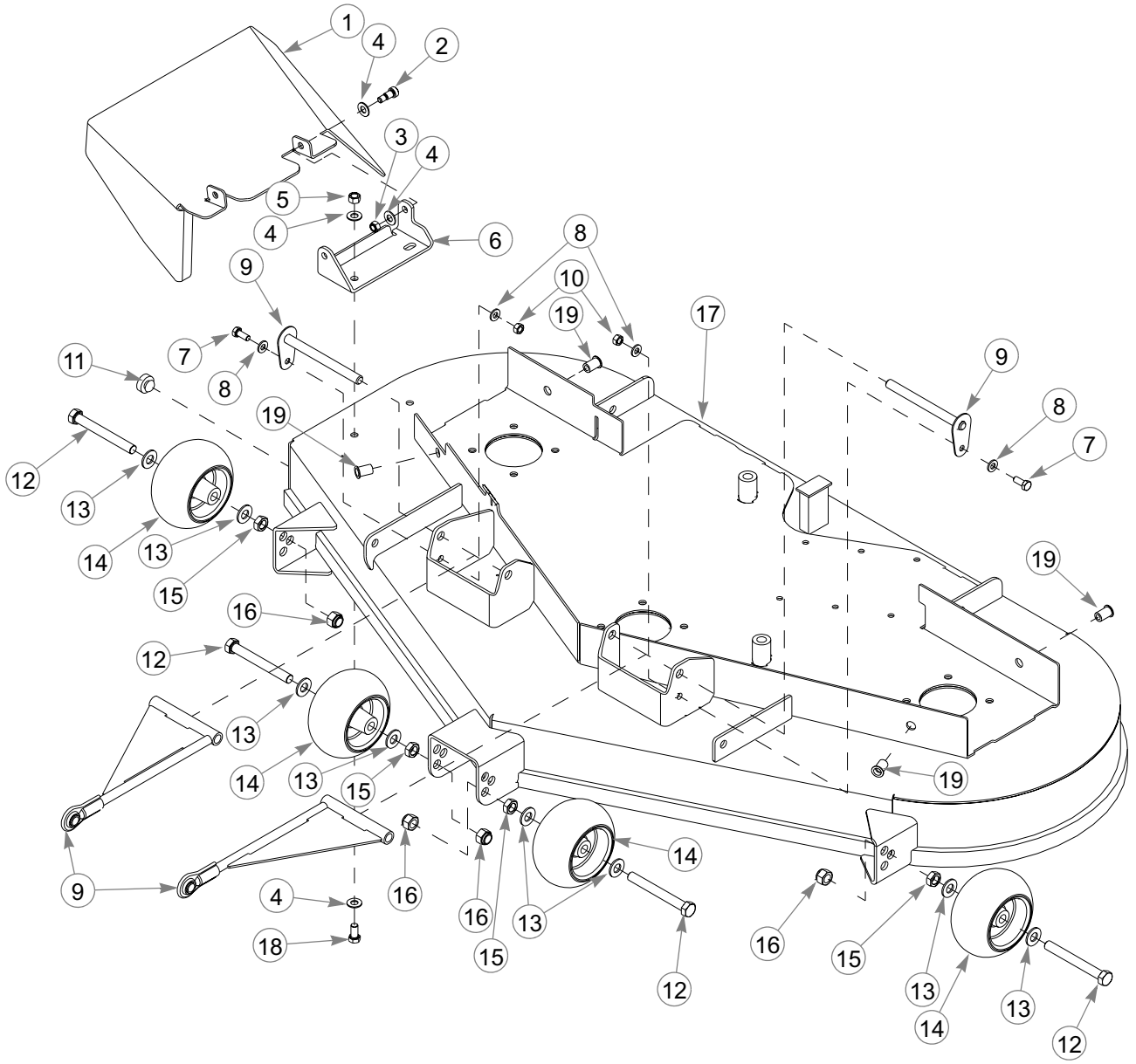
52" Deck Pulley Assembly 6-4

44" Deck Assembly 6-8

44" Deck Pulley Assembly 6-10

Blade Spindle Assembly Breakdown 6-13

52" Deck Assembly



52" Deck Assembly

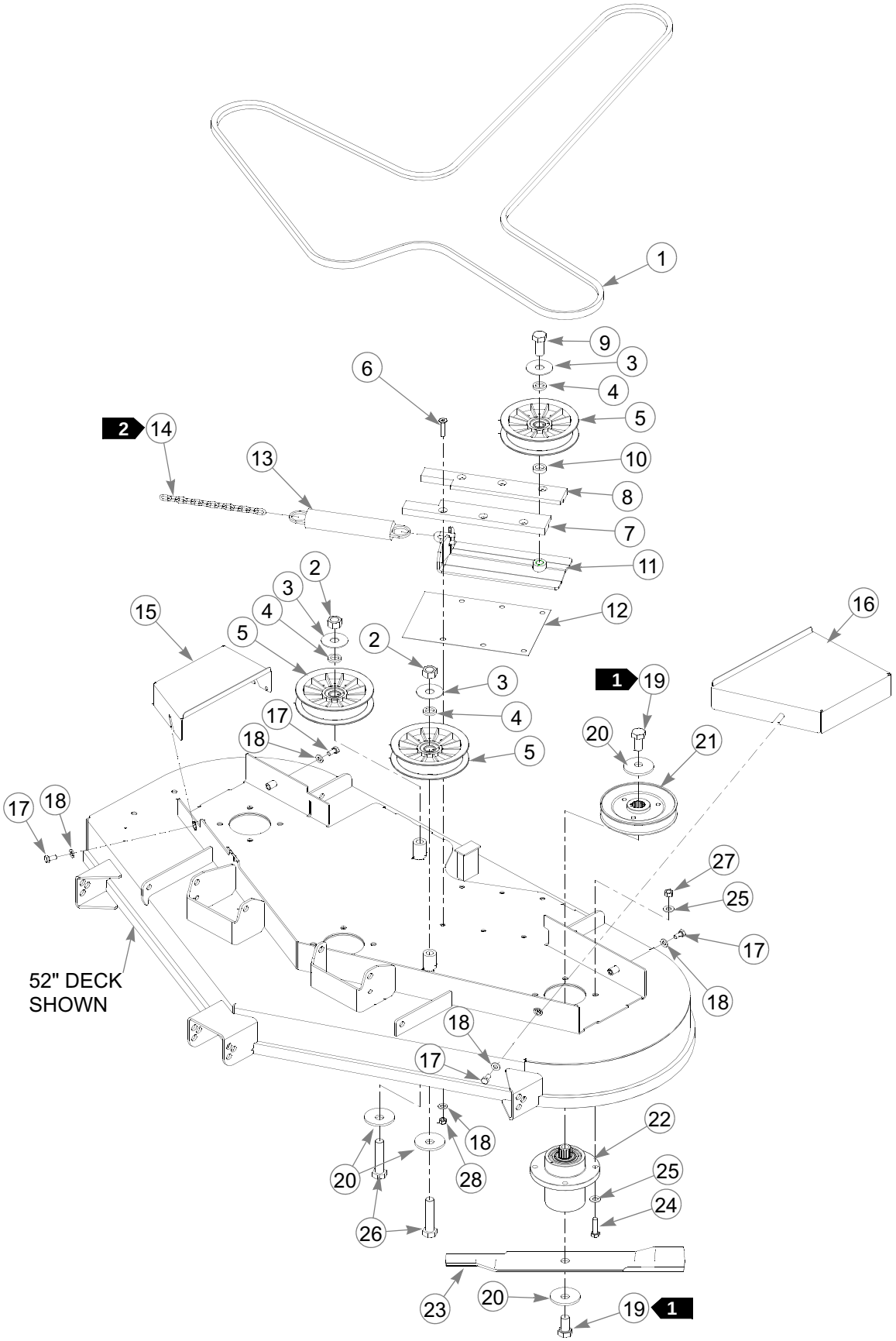
	INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
	1	357111	357111	1	FASTRAK DISCHARGE CHUTE
	2	063297	063297	2	SB .375 X .500 SH .312-18 TD ZN
	3	058776	058776	2	NT .312-18 HX NL ZNYC
	4	767954	767954	8	FW .406 X .812 X .060 SAE HD ZN
	5	054502	054502	2	NT .375-16 HX GRD 5 ZNYC
	6	357103	357103	1	DISCHARGE CHUTE MOUNT BRACKET
	7	034280	034280	2	CS .312-18 X .750 HX G5 ZNYC
	8	768523	768523	4	FW .343 X .687 X .051/.080HD ZNYC
4	9	787994	787994	2	DECK PIN & ROD ASSEMBLY
	10	034272	034272	2	NT .312-18 HX G5 ZNYC
	11	781880	781880	1	.500X 1.00X .312 X.188 BUMPER
	12	781708	N/A	4	CS .500-13 X 4.250 HX G5 ZNYC
	13	767962	N/A	12	FW .531 X 1.063 X.090 SAE HD ZN
	14	031997	N/A	4	ANTI-SCALP WHEEL
	15	053199	N/A	4	NT .50-13 HX JAM ZNYC
	16	781567	781567	4	NT .50-13 HX LK NY
3	17	545970	356212	1	52" FASTRAK DECK
1 2		788166	788166	4	ANTI SCALP WHEEL ASSEMBLY
	18	055822	055822	2	CS .375-16 X .750 HX G5 ZNYC
	19	N/A	808485	4	5/16-18 THREAD RIVET NUT

NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes items 12 through 15.
3. When ordering replacement decks, also order 6 each of Items 6 and 7, 1 each of Item 8, 9, and 12, from Deck Pulley Assembly. Replacement decks include decals, see “52" Deck Decals” on page 8-4.
4. Includes one each of:

784736	DECK PULL ROD ASSY
362988	DECK PIN

52" Deck Pulley Assembly



52" Deck Pulley Assembly

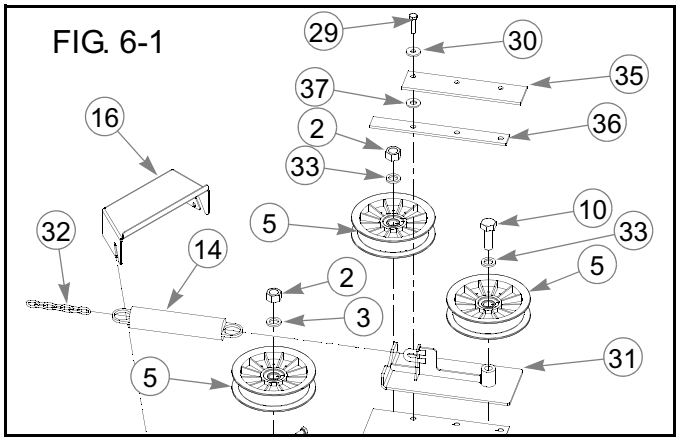
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784249	784249	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	046821	046821	3	FW .656 X 2.00 X .078 ZNYC
4	797449	797449	3	FW .650X1.00X.180 ZNYCG5
5	784504	784504	3	5.00" OD, 5/8" ID IDLER PULLEY
10 6	797910	797910	6	CS .312-18X1.50FLT SH ZY
10 7	600171	600171	1	UHMW DECK IDLER CLAMP
10 8	600189	600189	1	IDLER SLIDE UHMW RS
9	794446	794446	1	CS .625-11 X 1.50 HX G5 ZNYC
10 10	600296	600296	1	SPACER DECK IDLER
10 11	350884	350884	1	DECK IDLER
9 12	786335	786335	1	UHMW (.03 THICK)
13	781302	781302	1	IDLER SPRING
7 14	259812	059931	1	SPRING CHAIN
15	361147	361147	1	R.S. PULLEY COVER
16	361154	361154	1	L.S. PULLEY COVER
17	064006	064006	4	CS .312-18 X .625 HX G5 ZNYC
18	768523	768523	10	FW .343 X.687 X .051/.080HD ZNYC
19	781872	781872	6	CS .625-11 X 1.25 HX G5 ZNYC
20	782474	782474	8	CW .631 2.250 X .187 PNT
21	786889	786889	3	DECK DRIVE 5.25 PULLEY
22	783506	783506	3	BLADE SPINDLE ASSEMBLY
23	783753	783753	3	18" X 2.50 X 0.204 .631 DIA BLADE
24	005116	005116	12	CS .375-16 X 1.375 HX G5 ZNYC
25	767954	767954	24	FW .406 X .812 X .060 SAE HD ZN
26	783738	783738	2	CS .625-11X3.00 FULL HX G5 ZN
27	054502	054502	12	NT .375-16 HX GRD 5 ZNYC
28	058776	058776	6	NT .312-18 HX NL ZNYC
4 29	079186	079186	6	CS .312-18 X 1.25 HX G5 ZNYC
4 30	712927	712927	6	FW .344 X 1.00 X.12 HRD ZNYC
4 31	358317	358317	1	DECK IDLER
4 32	364315	364315	1	SPRING CHAIN
4 33	028118	028118	3	FW .62 X 1.00 X.134 ZNYC
7 34	102970	102970	1	MINI Z IDLER DECK
5 35	787069	787069	2	UHMW RISER DECK IDLER
8 36	785832	785832	2	UHMW CLAMP DECK IDLER
3	783878	N/A	2	UHMW IDLER CLAMP
6 37	017129	017129	6	FW .440 X 1.000 X .083 ZNYC
6 38	784199	784199	6	CS .312-18 X1.25 FLT SH ZNYC
10 40	720193	720193	1	FW .656 X 1.125 X .06 ZNYC

NOTES:

1. Torque to 118 ft. lbs.
2. See “Deck Belt Routing and Tensioning” on page 7-3 for belt tensioning.
3. Used on mowers with serial number prior to 02017202 (FIG. 6-1).

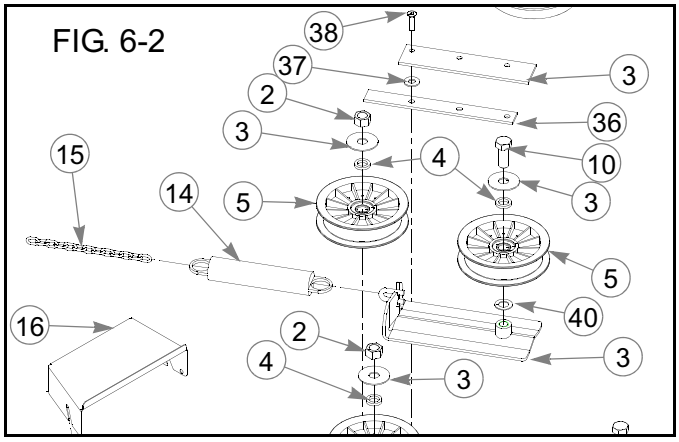
4. Used on mowers with serial numbers between 02017202 and 05050800 (FIG. 6-1).

FIG. 6-1



5. Used on mowers with serial numbers between 02057459 and 06023383.
6. Used on mowers with serial numbers prior to 02017202 and between 05050880 and 06023383 (FIG. 6-2).
7. Deck tensioning idler and spring chain used on mowers with serial number 05050800 and later.
8. Used on mowers with serial numbers 02017202 and later.

FIG. 6-2



9. Used on mowers with serial numbers 02057459 and later.
10. Used on mowers with serial numbers 06023383 and later.

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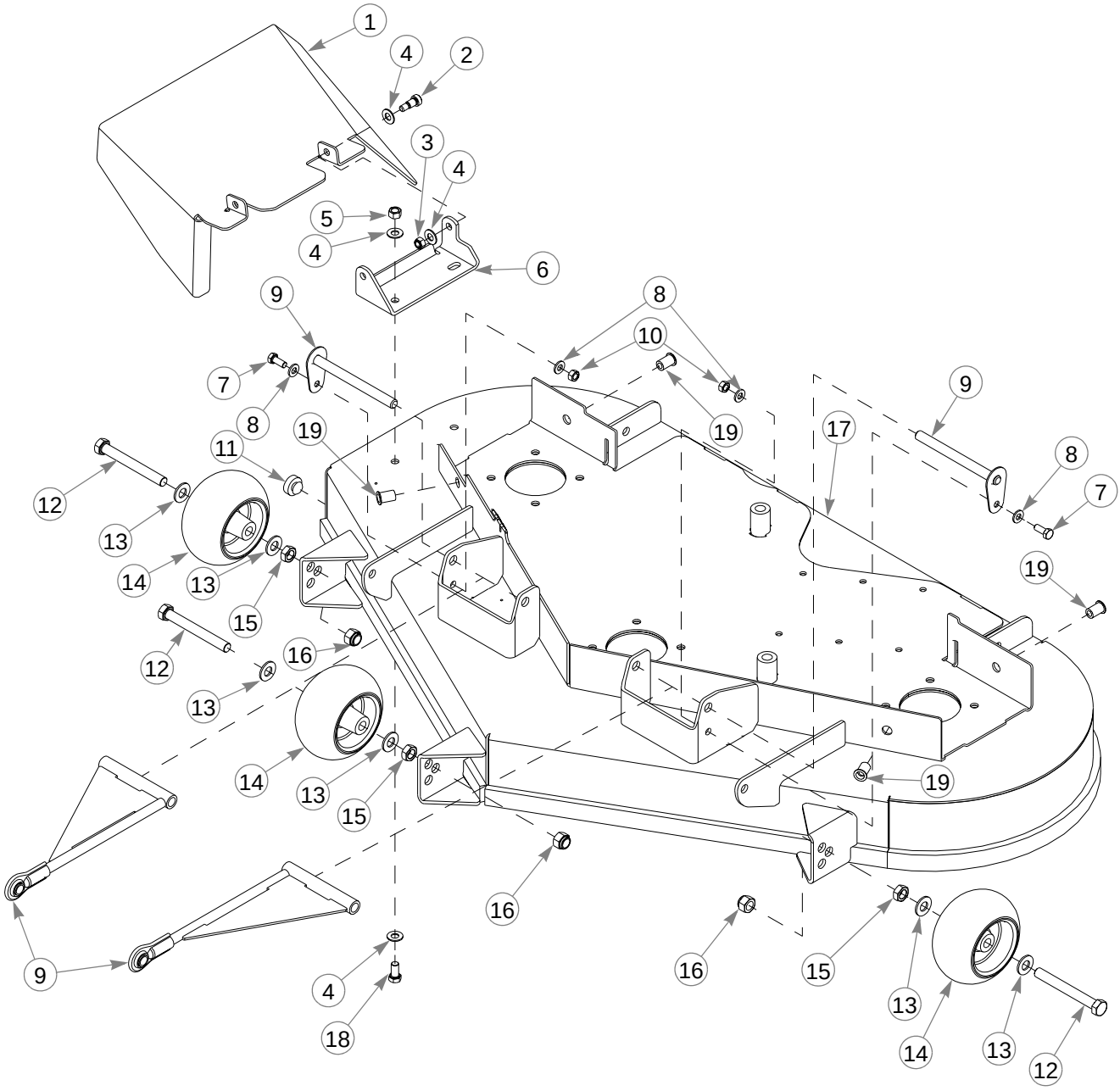
44" Deck Assembly



44" Deck Assembly

	INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
	1	357111	357111	1	FASTRAK DISCHARGE CHUTE
	2	063297	063297	2	SB .375 X .500 SH .312-18 TD ZN
	3	058776	058776	2	NT .312-18 HX NL ZNYC
	4	767954	767954	8	FW .406 X .812 X .060 SAE HD ZN
	5	054502	054502	2	NT .375-16 HX GRD 5 ZNYC
	6	357103	357103	1	DISCHARGE CHUTE MOUNT BRACKET
	7	034280	034280	2	CS .312-18 X .750 HX G5 ZNYC
	8	768523	768523	4	FW .343 X .687 X .051/.080HD ZNYC
5	9	787994	787994	2	DECK PIN & ROD ASSEMBLY
	10	034272	034272	2	NT .312-18 HX G5 ZNYC
	11	781880	781880	1	.500X 1.00X .312 X.188 BUMPER
	12	781708	N/A	3	CS .500-13 X 4.250 HX G5 ZNYC
	13	767962	N/A	9	FW .531 X 1.063 X.090 SAE HD ZN
	14	031997	N/A	3	ANTI-SCALP WHEEL
	15	053199	N/A	3	NT .50-13 HX JAM ZNYC
	16	781567	781567	3	NT .50-13 HX LK NY
4	17	546051	358242	1	44" FASTRAK DECK
1 2		788166	788166	3	ANTI SCALP WHEEL ASSEMBLY
	18	055822	055822	2	CS .375-16 X .750 HX G5 ZNYC
3	19	N/A	808485	4	5/16-18 THREAD RIVET NUT

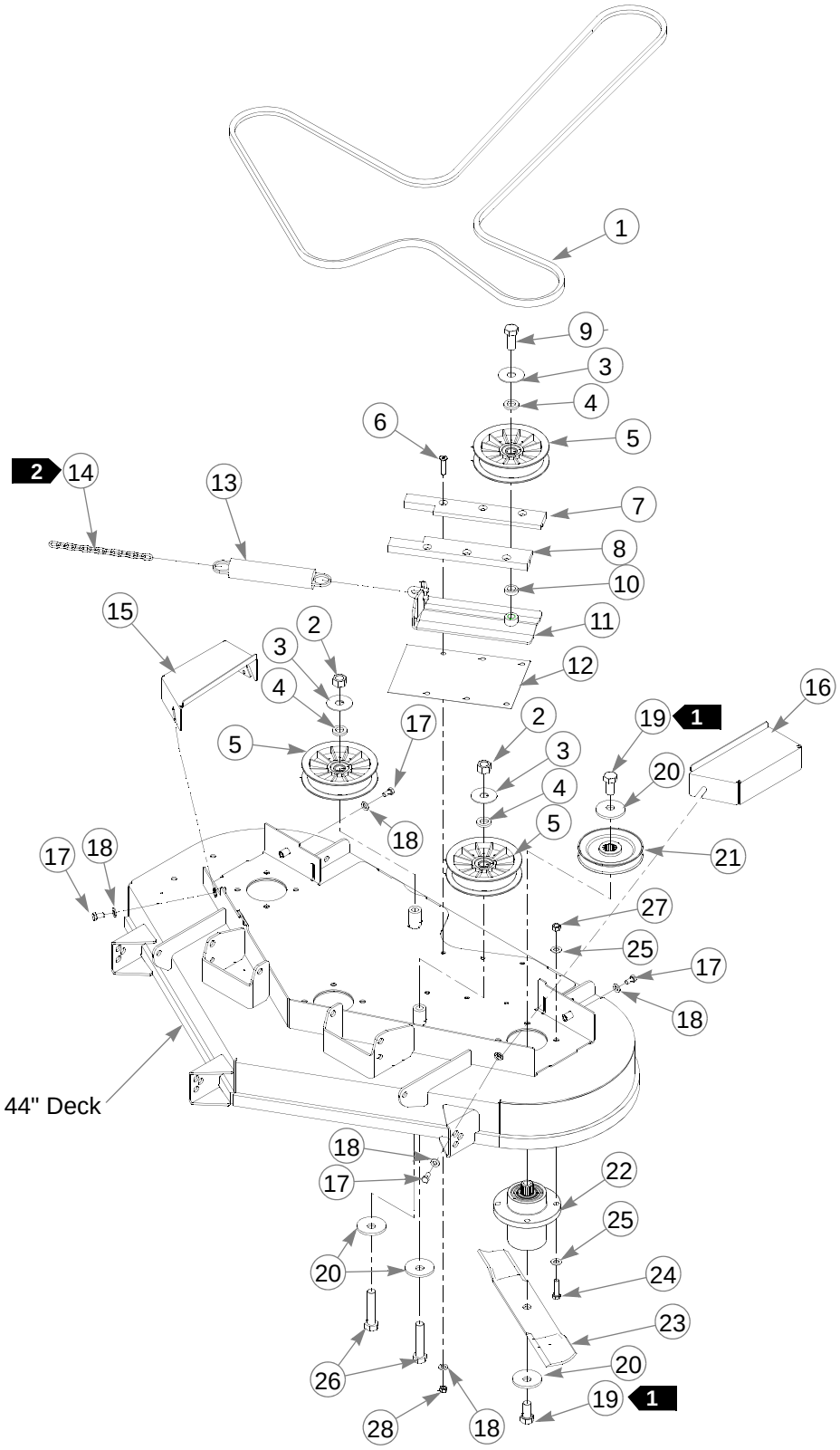
NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes items 12 through 15.
3. Quantity of 3 on mowers with serial number prior to 05050800.
4. When ordering replacement decks, also order 6 each of Items 6, and 7, and 1 each of Item 8, 9 and 12, from Deck Pulley Assembly. Replacement decks include decals, see “44" Deck Decals” on page 8-5.
5. Includes one each of:

784736 DECK PULL ROD ASSY

362988 DECK PIN

44" Deck Pulley Assembly



44"Deck Pulley Assembly

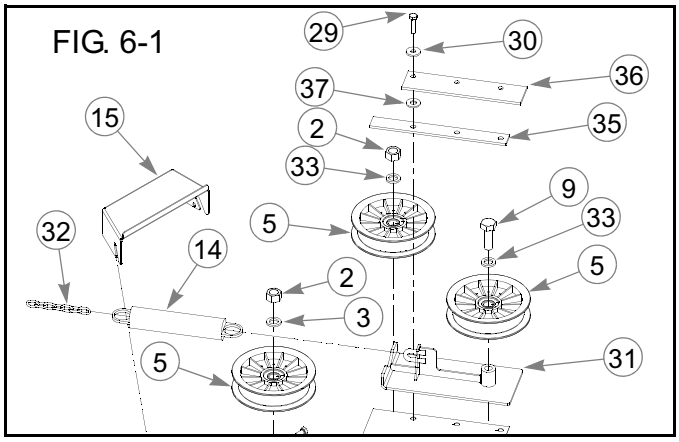
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	784322	784322	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	046821	046821	3	FW .656 X 2.00 X .078 ZNYC
4	797449	797449	3	FW .650X1.00X.180 ZNYCG5
5	784504	784504	3	5.00" OD, 5/8" ID IDLER PULLEY
10 6	797910	797910	6	CS .312-18 X1.25 FLT SH ZNYC
10 7	600189	600189	2	IDLER SLIDE UHMW RS
10 8	600171	600171	2	IDLER SLIDE UHMW LS
9	794446	794446	1	CS .625-11 X 1.50 HX G5 ZNYC
10 10	600296	600296	1	DECK IDLER SPACER
10 11	350884	350884	1	IDLER DECK
9 12	786335	786335	1	UHMW (.03 THICK)
13	781302	781302	1	IDLER SPRING
7 14	364315	059931	1	SPRING CHAIN
15	360792	360792	1	R.S. PULLEY COVER
16	360818	360818	1	L.S. PULLEY COVER
17	064006	064006	4	CS .312-18 X .625 HX G5 ZNYC
18	768523	768523	10	FW .343 X.687 X .051/.080HD ZNYC
19	781872	781872	6	CS .625-11 X 1.25 HX G5 ZNYC
20	782474	782474	8	CW .631 2.250 X .187 PNT
21	792689	792689	3	DECK DRIVE 5.00 PULLEY
22	783506	783506	3	BLADE SPINDLE ASSEMBLY
23	784256	784256	3	15.66"-L-F-CW BLADE
24	005116	005116	12	CS .375-16 X 1.375 HX G5 ZNYC
25	767954	767954	24	FW .406 X .812 X .060 SAE HD ZN
26	783738	783738	2	CS .625-11X3.00 FULL HX G5 ZN
27	054502	054502	12	NT .375-16 HX GRD 5 ZNYC
28	058776	058776	6	NT .312-18 HX NL ZNYC
4 29	079186	079186	6	CS .312-18 X 1.25 HX G5 ZNYC
4 30	712927	712927	6	FW .344 X 1.00 X.12 HRD ZNYC
4 31	358317	358317	1	DECK IDLER
4 32	364315	364315	1	SPRING CHAIN
4 33	028118	028118	3	FW .62 X 1.00 X.134 ZNYC
7 34	102970	102970	1	MINI Z DECK IDLER
5 35	787069	787069	2	UHMW DECK IDLER RISER
8 36	785832	785832	2	UHMW DECK IDLER CLAMP
3	783878	N/A	2	UHMW IDLER CLAMP
6 37	017129	017129	6	FW .440 X 1.000 X .083 ZNYC
6 38	784199	784199	6	CS .312-18 X 1.25 FLT SH ZNYC
10 39	720193	720193	1	FW .656 X 1.125 X .06 ZNYC

NOTES:

1. Torque to 118 ft. lbs.
2. See “Deck Belt Routing and Tensioning” on page 7-3 for belt tensioning.
3. Used on mowers with serial number prior to 02017202 (FIG 6-1).

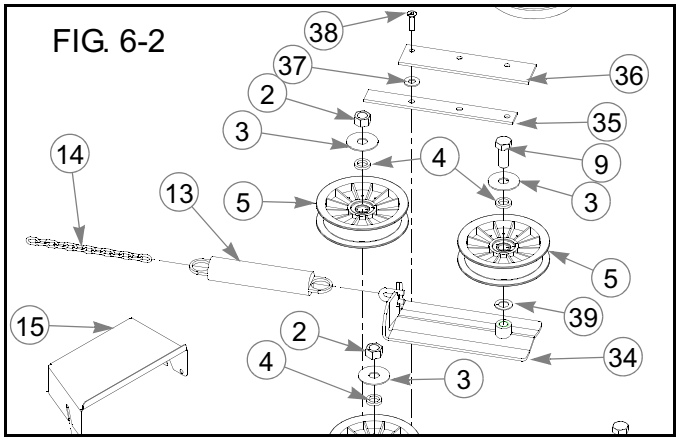
4. Used on mowers with serial numbers between 02017202 and 05050800 (FIG. 6-1).

FIG. 6-1



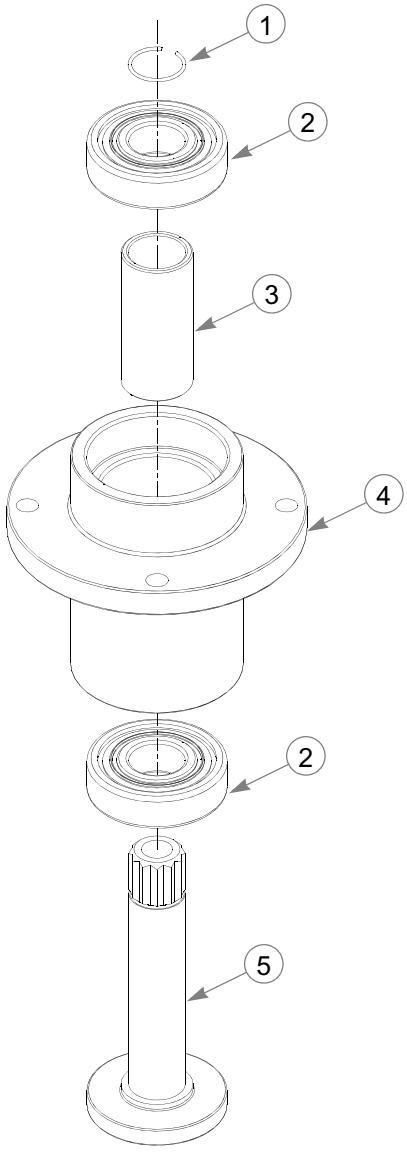
5. Used on mowers with serial numbers between 02057459 and 06023383.
6. Used on mowers with serial numbers prior to 02017202 and between 05050880 and 06023383 (FIG. 6-2).
7. Deck tensioning idler and spring chain used on mowers with serial number 05050800 and later.
8. Used on mowers with serial numbers 02017202 and later.

FIG. 6-2



9. Used on mowers with serial numbers 02057459 and later.
10. Used on mowers with seial numbers 06023383 and later.

Blade Spindle Assembly Breakdown



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	783548	783548	1	BLADE SPINDLE RETAINING RING
2	783555	783555	2	BLADE SPINDLE BEARING
3	783530	783530	1	BLADE SPINDLE SPACER
4	783514	783514	1	BLADE SPINDLE HOUSING
5	783522	783522	1	BLADE SPINDLE SHAFT

NOTES:

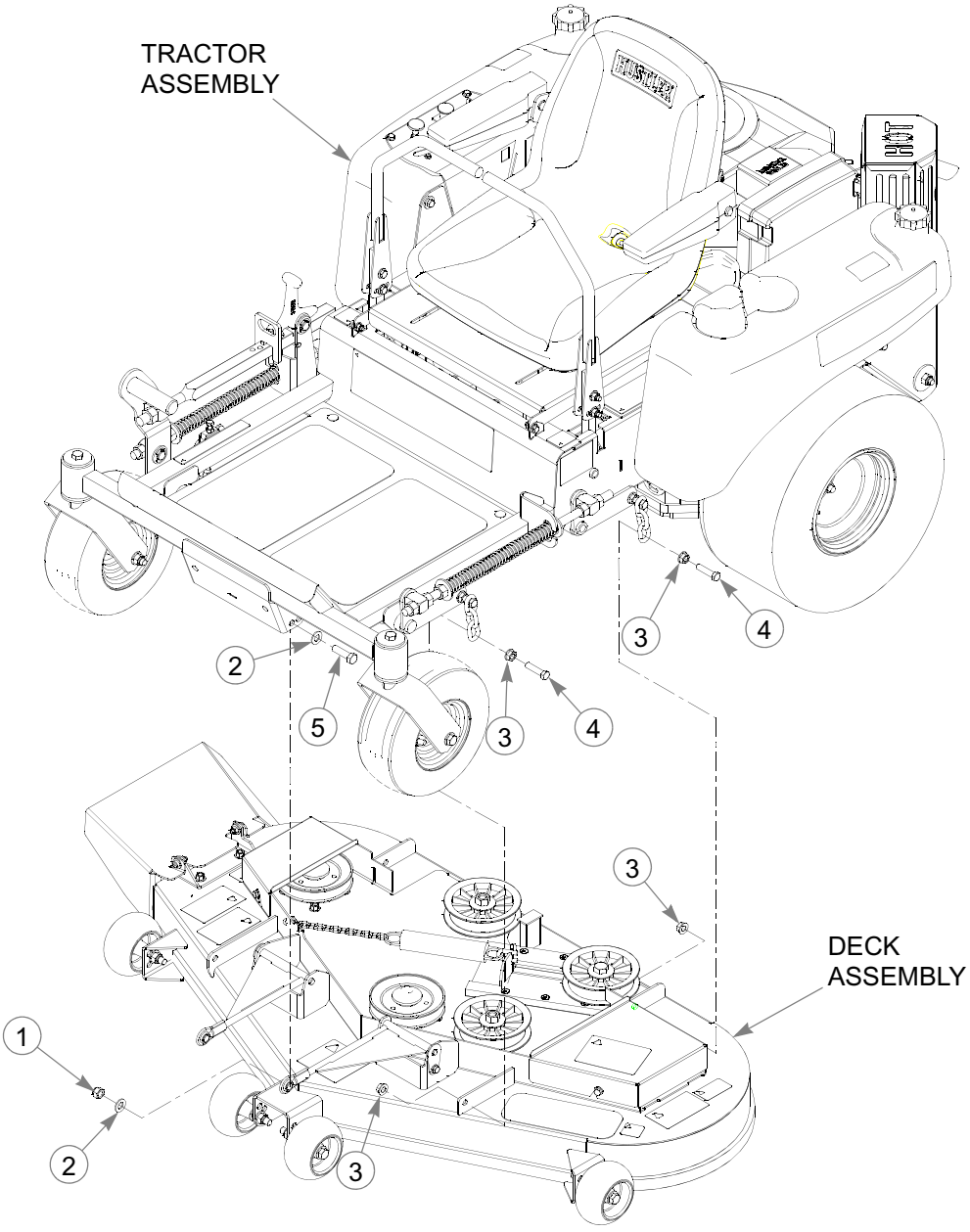
Chapter 7 Contents

Deck Installation 7-2

Deck Belt Routing and Tensioning. 7-3

Seat Installation 7-4

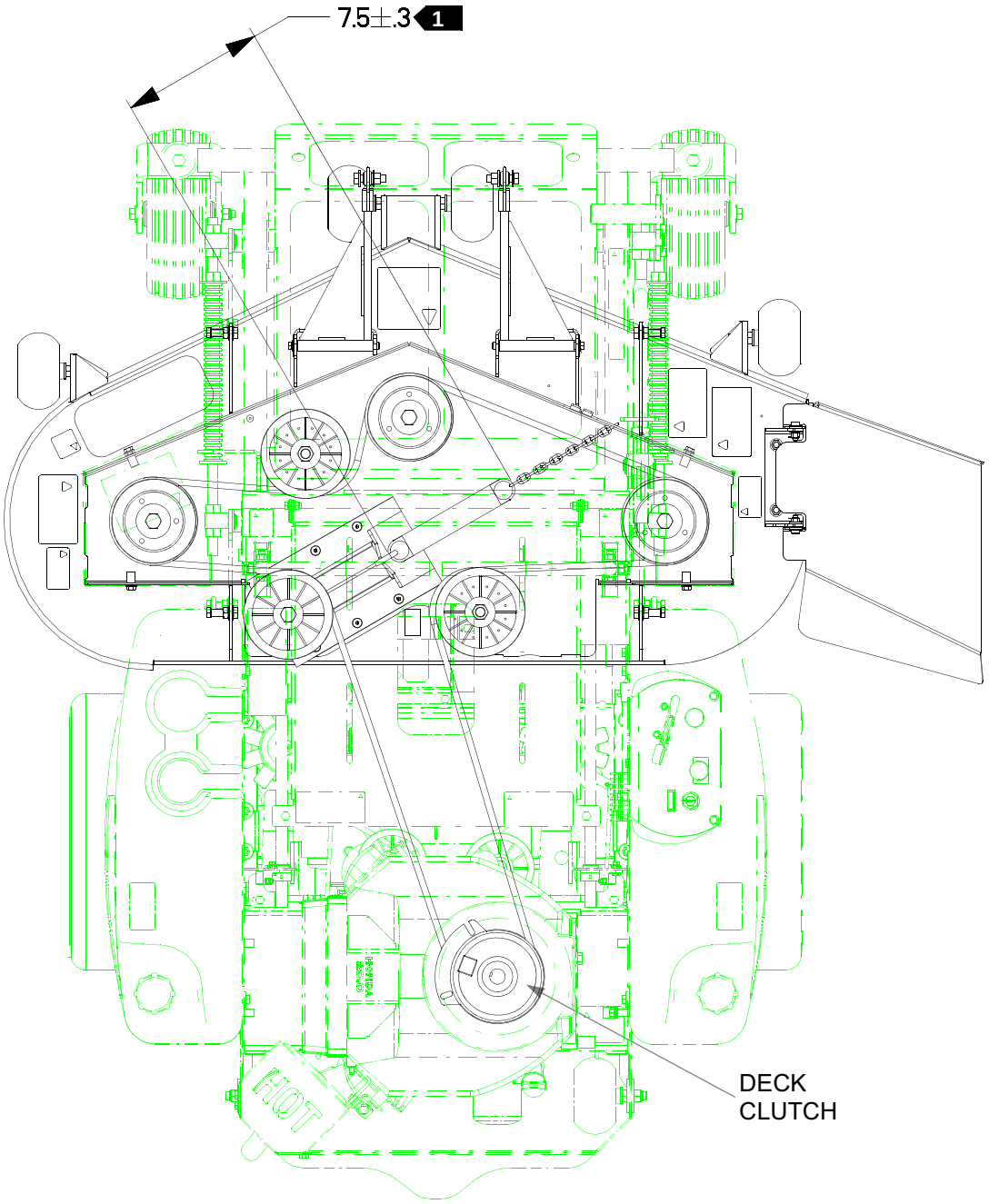
Deck Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781567	781567	2	NT .500-13 H8ZY NL
2	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
3	704643	704643	8	NT .437-14 HX FLG ZN
4	055749	055749	4	CS .437-14 X 1.750 HX G5 ZNYC
5	017616	017616	2	CS .500-13 X 1.750 HX G5 ZNYC

NOTES:

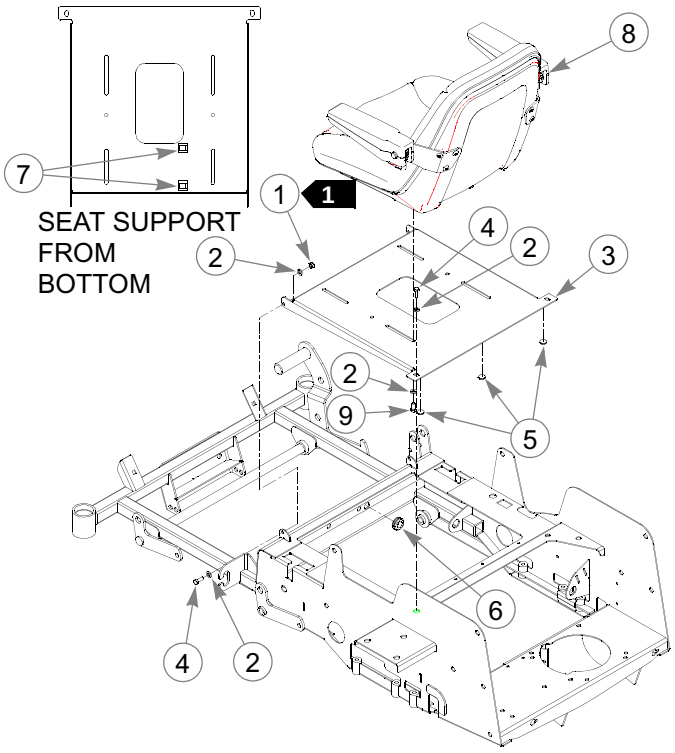
Deck Belt Routing and Tensioning



NOTES:

1. Spring length after tensioning belt measured from outside of hook to outside of hook.
2. Route belt as shown.

Seat Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	058776	058776	2	NT .312-18 HX NL ZNYC
2	768523	768523	10	FW .343 X .687 X .051/.080HD ZNYC
3	363507	363507	1	SEAT SUPPORT
4	064014	064014	4	CS .312-18 X .875 HX G5 ZNYC
5	781617	781617	3	RUBBER BUMPER
6	080358	080358	1	GM .50 X 1.00 X .75 X .12
7	047654	047654	2	CLIP
8	792226	792226	1	SEAT
9	034280	034280	4	CS .312-18X .750 HX G5 ZNYC

NOTES:

1. Do not torque, Item 3 (363507 Seat Support) must pivot.
2. Service parts (Michigan Seat):

793315	SEAT SWITCH KIT
797464	ARMREST ASSEMBLY L.H.
797472	ARMREST ASSEMBLY R.H.
797480	MOLDED ARMREST KIT

3. Service parts (Milsco Seat):

782177	OPERATOR PRESENCE SWITCH

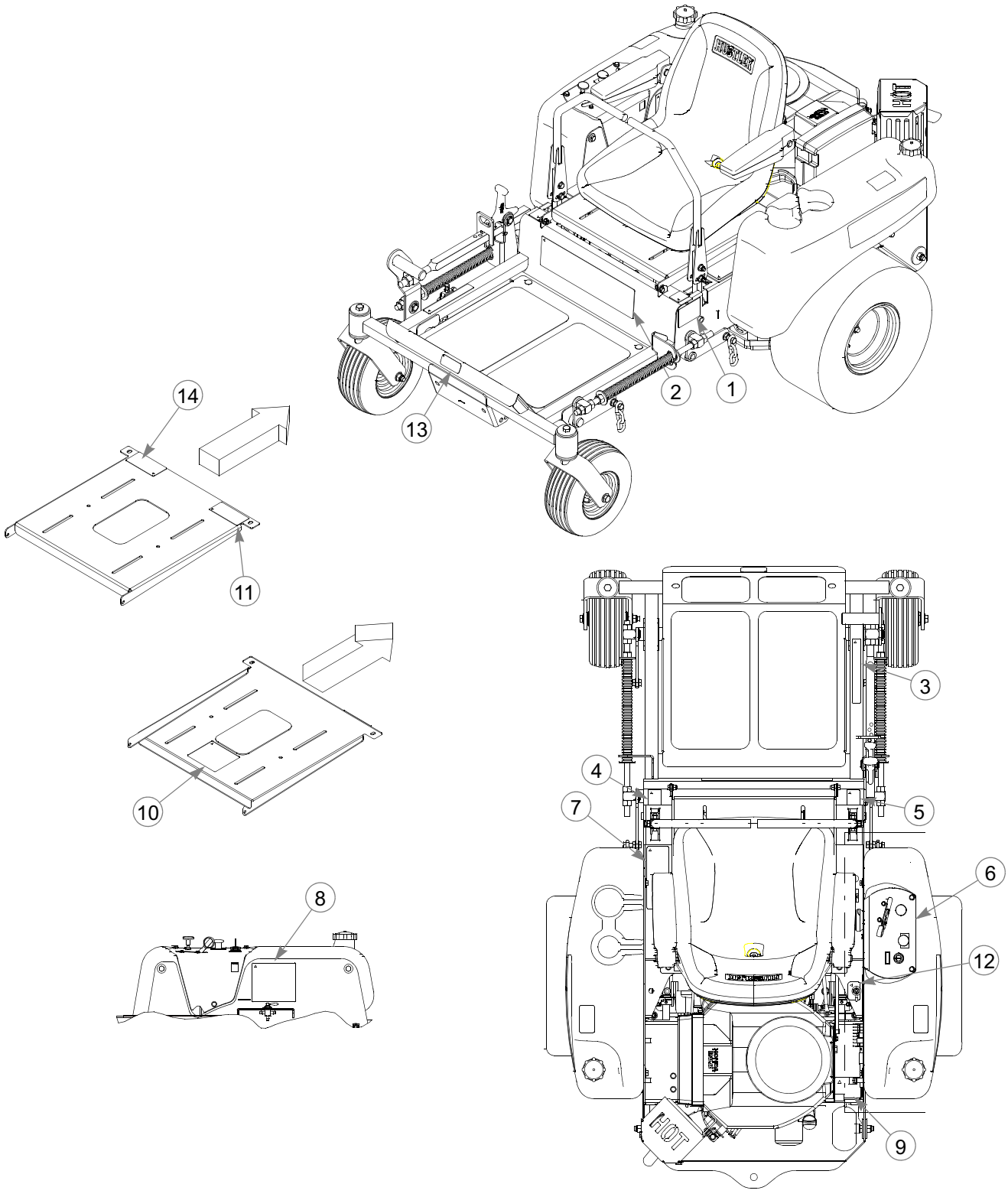
Chapter 8 Contents

Tractor Decals 8-2

52” Deck Decals 8-4

44" Deck Decals 8-5

Tractor Decals

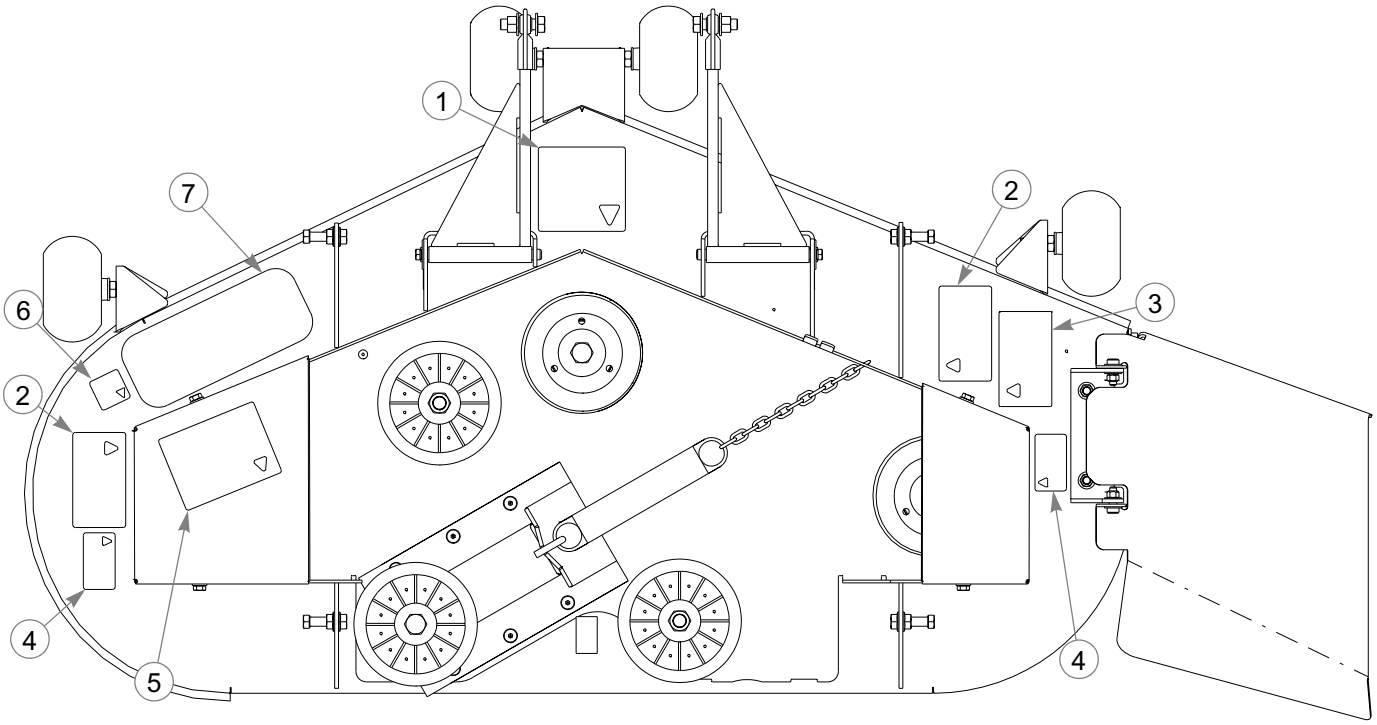


Tractor Decals

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	N/A	083279	1	TURF PROD SERIAL NO PLATE
2	784710	784710	1	FASTRAK DECAL
3	788935	788935	1	DECK HEIGHT DECAL
4	785139	785139	1	FASTRAK LEFT SIDE STEERING DECAL
5	785220	785220	1	FASTRAK RIGHT SIDE STEERING DECAL
6	784702	784702	1	INSTRUMENT PANEL DECAL
7	785121	785121	1	OPERATION DECAL
8	785147	785147	1	SERVICE DECAL
9	771436	771436	1	STABILIZER DECAL
10	727016	727016	1	BATTERY DECAL
11	788968	788968	1	ENGINE COMPARTMENT DECAL
12	791830	791830	1	FUEL INDICATOR DECAL
13	793588	793588	1	HUSTLER NAME PLATE
14	600899	600899	1	PUMP BELT WARNING DECAL

NOTES:

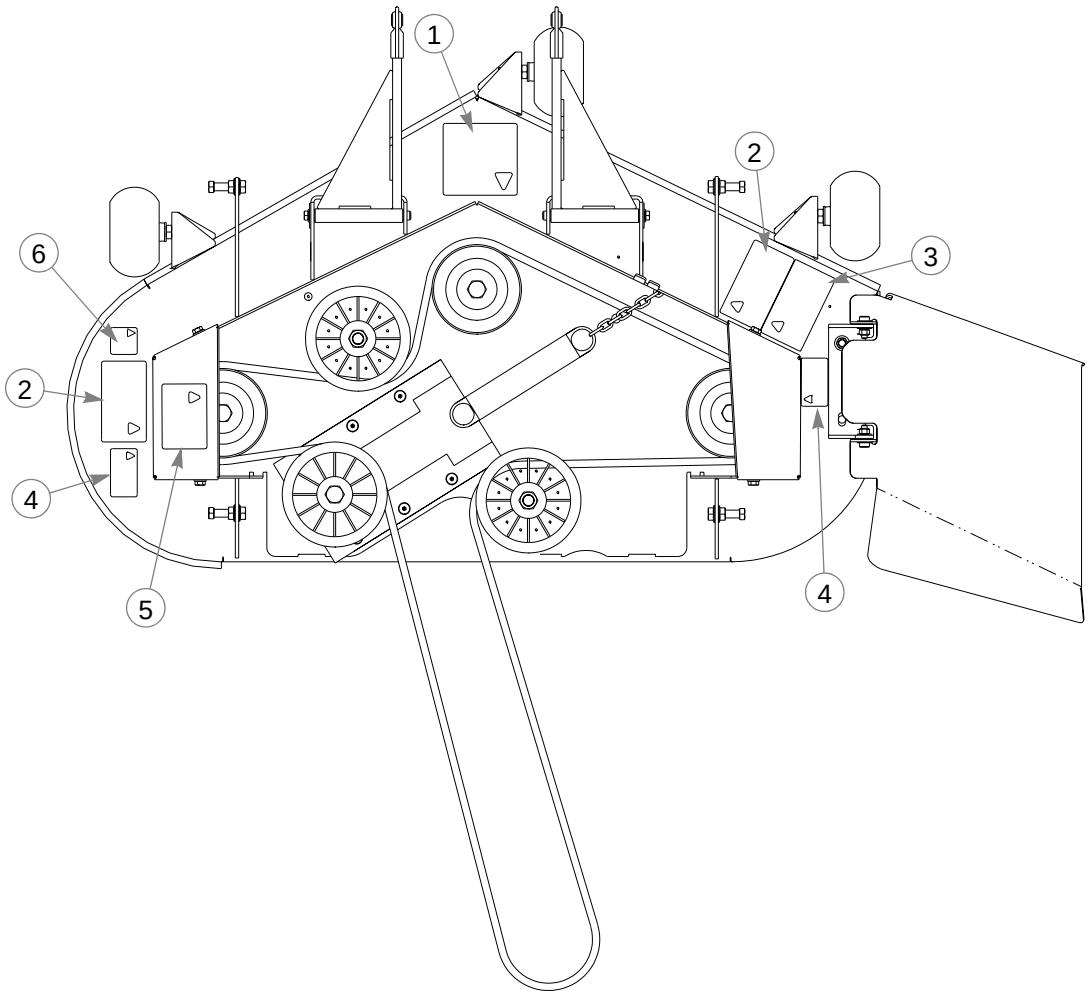
52" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781419	781419	1	BELT ROUTING DECAL
2	727438	727438	2	WHIRLING BLADES DECAL
3	727420	727420L	1	DEFLECTOR SHIELD DECAL
4	727453	727453	2	BELT & PULLEY DECAL
5	785535	785535	1	52 FASTRAK DECK ID DECAL
6	727172	727172	1	“MADE IN U.S.A.” DECAL
7	785055	785055	1	STEP TREAD

NOTES:

44" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781419	781419	1	BELT ROUTING DECAL
2	727438	727438	2	WHIRLING BLADES DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727453	727453	2	BELT & PULLEY DECAL
5	784801	784801	1	44 FASTRAK DECK ID DECAL
6	727172	727172	1	“MADE IN U.S.A.” DECAL

NOTES:

Chapter 9 Contents

Maintenance & Adjustments Safety Precautions 9-3
Maintenance 9-5
Adjustments 9-15

WARNING:

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

IMPORTANT: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on any forest-covered, brush-covered, or grass-covered unimproved land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

The enclosed Engine Owner's Manual is supplied for information regarding the U.S. Enviromental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance and warranty.

Keep this Engine Owner's Manual with your unit. Should the Engine Owner's Manual become damaged or illegible, replace immediately. Replacements may be ordered per the information found in the Product Information section of this manual.

MAINTENANCE & ADJUSTMENT SAFETY PRECAUTIONS

This safety alert symbol is used to call attention to a message intended to provide a reasonable degree of **PERSONAL SAFETY** for operators and other persons during the normal operation and servicing of this equipment.

DANGER – denotes immediate hazards which **WILL** result in severe personal injury or death.

WARNING - denotes a hazard or unsafe practice which **COULD** result in severe personal injury or death.

This manual uses two other words to highlight information. **IMPORTANT** calls attention to special mechanical information and **NOTE:** emphasizes general information worthy of special attention.

All operators/mechanics should read this manual, or be instructed about safe operating and maintenance procedures. This is the owner's responsibility.

Improper use or maintenance by the operator, mechanic, or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert ▲ symbol, which means DANGER or WARNING - "personal safety instructions." Failure to comply with the instructions may result in personal injury or death.

Incorrect usage of this machine may result in severe injury. Personnel operating and maintaining it should be trained in the proper use and should read the manuals completely and thoroughly before attempting to set-up, operate, adjust, or service this machine.

The Quick Reference Decals, located in front of and to the right of the seat, are designed to give the operator/mechanic brief information needed in the daily operation and service of the machine. These decals are not intended to be used in place of this manual but instead is to be used as an extension of this manual. These decals should not be removed or obliterated. Replace these decals if they become unreadable.

It is the **owner's responsibility** to make certain that the operator/mechanic reads and understands this manual and all decals before operating this machine. It is also the **owner's responsibility** to make certain that the operator/mechanic is a qualified and physically able individual, properly trained in the operation of this equipment. Local regulations may restrict the age of the operator/mechanic.

The owner should also ensure that the operator/mechanic know that they are responsible for their own safety as well as the safety of other persons within the vicinity. **Remember,** the operator/mechanic is responsible for accidents or hazards occurring to other people or their property.

Safe Maintenance & Adjustment Practices

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

- ▲ Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to tractor. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect the negative battery cable. Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area.
- ▲ Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- ▲ Keep your machine clean and remove any deposits of trash and clippings, which can cause engine fires and hydraulic overheating as well as excessive belt wear. Clean up oil or fuel spillage. Allow machine to cool before storing.
- ▲ **Clean flammable material from machine. Prevent fires by keeping engine compartment, battery, fuel line, fuel tank and operator's station clean of accumulated trash, grass clippings, and other debris. Always clean up spilled fuel and oil.**
- ▲ Always wear adequate ear protection, such as earplugs, when operating this equipment as prolonged exposure to uncomfortable or loud noises can cause impairment or loss of hearing. Do not wear radios or music headphones while operating the machinery. Safe operation requires your full attention.
- ▲ Never put hands or feet under any part of the machine while it is running.
- ▲ Except when changing or checking belt, **always** keep belt covers on mower for safety as well as cleanliness.
- ▲ Stop the engine before removing the grass catcher or unclogging the discharge chute. Never clear the discharge chute with the engine running. Turn off the engine and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. **Never use your hand!**
- ▲ Exercise caution when loading or unloading the machine onto a trailer or truck.
- ▲ Always wear safety goggles or safety glasses with side shields when operating the mower.
- ▲ Never leave machine unattended with ignition key in switch, especially with children present.
- ▲ Be alert and turn the machine off if children enter the area.
- ▲ Always wear adequate eye protection when servicing the battery, hydraulic system or when grinding mower blades and removing accumulated debris.
- ▲ Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive.
- ▲ Never refuel tractor while engine is running; never refuel near an open flame or near devices which can create a spark. Refuel outdoors preferably, or in well ventilated areas.
- ▲ Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- ▲ Never run the engine in an enclosed area unless exhaust is vented to the outside. Exhaust gases contain carbon monoxide which is odorless and deadly poison.
- ▲ Never attempt to make any adjustments or repairs to the tractor drive system, mower deck or any attachment while the tractor engine is running or deck clutch is engaged. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- ▲ Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.
- ▲ Before working on or under the deck, make certain engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- ▲ Use a stick or similar instrument to clean under the mower making sure that no part of the body, especially arms and hands are under mower.
- ▲ Exercise caution when working under the deck as the mower blades are extremely sharp. Wearing gloves or wrapping the blade(s) is advisable when working around or with the blades.
- ▲ Do not touch hot parts of machine.
- ▲ Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- ▲ Never tamper with safety devices. Check their proper operation regularly.

- ▲ Grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- ▲ Use only genuine Hustler replacement parts to ensure that original standards are maintained

Using a ramp

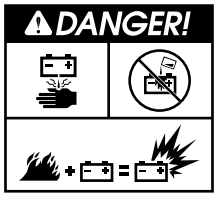
- ▲ Use extreme caution when loading and unloading a unit with a ramp.
- ▲ Use only a single, full width ramp; do not use individual ramps for each side of the unit. Having a full width ramp provides a surface for the tractor frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the machine tipping over.
- ▲ Do not exceed a 15 degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- ▲ When on a ramp avoid sudden acceleration

Safety and Instruction Decals

▲ Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

The following illustrations show the various **safety decals** that are located on the machine. A brief explanation is shown to help the operator understand the meanings of these decals.

Read Owner's Manual and Quick Reference Decal before attempting to operate this machine.



Part Number 727016

Avoid skin contact with battery acid.
Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.
Do not allow open flame near the battery when charging.
Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last.
Do not overfill battery.
Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.

Part Number 771436

Do not remove or modify stabilizer wheels or rear engine guard or injury can result.

WARNING!
Keep engine and pump compartment(s) clean (especially in exhaust area) to prevent fire and provide maximum engine and hydraulic cooling.

Part Number 788968

Keep engine and pump compartment(s) clean (especially in exhaust area) to prevent fire and provide maximum engine and hydraulic cooling.

WARNING!
Clean up any gasoline spills.
Do not refuel while in enclosed trailer or other enclosed areas
Stop engine and allow engine to cool for 2 minutes prior to refueling.

Do not smoke while refueling.
Do not fill tank with engine running, or while the engine is hot.
Allow engine to cool before storing machine inside a building.
Store away from open flame or spark if there is fuel in tank.
Clean up any gasoline spills.
Do not refuel while in enclosed trailer or other enclosed areas

WARNING!
Do not operate unless deflector is in place and in lowest position or complete grass collection system is in place.

Part Number 727420

Never operate the mower deck with side deflector removed or in raised position, except when the grass catcher attachment is being used.

Part Number 727438

Whirling blades! Keep hands and feet away.
Beware of thrown objects.

Part Number 727453

Keep shields or covers in place while machine is in operation.
Keep hands away from rotating pulleys and belts.

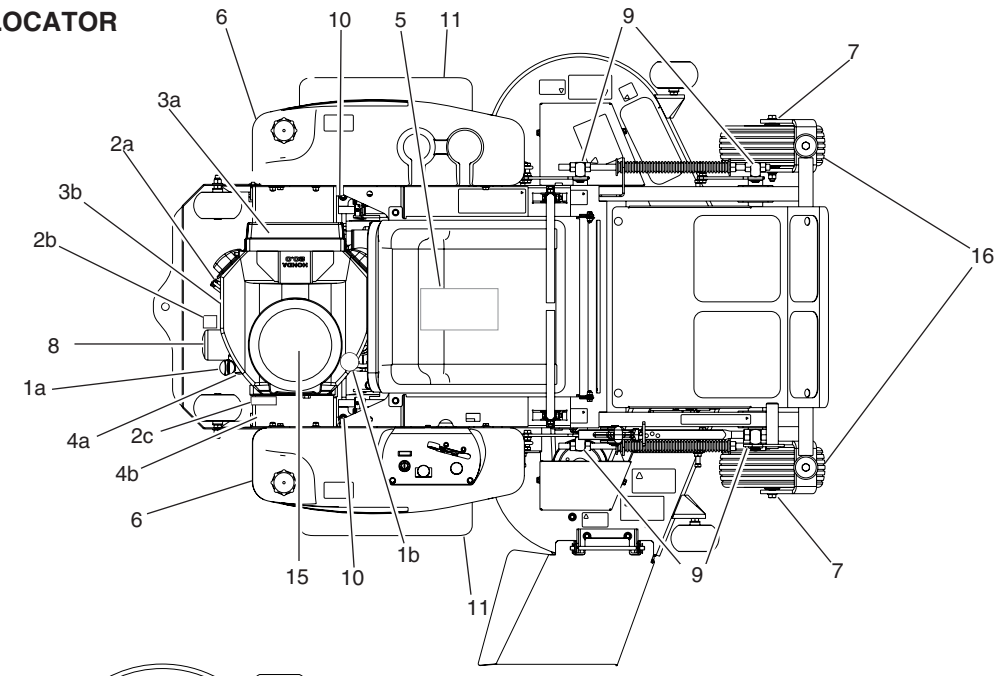
WARNING!
If you loose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.
If pump belt fails, steering control will be lost. Refer to owner's manual for inspection and replacement intervals and refer to above paragraph for emergency procedures.

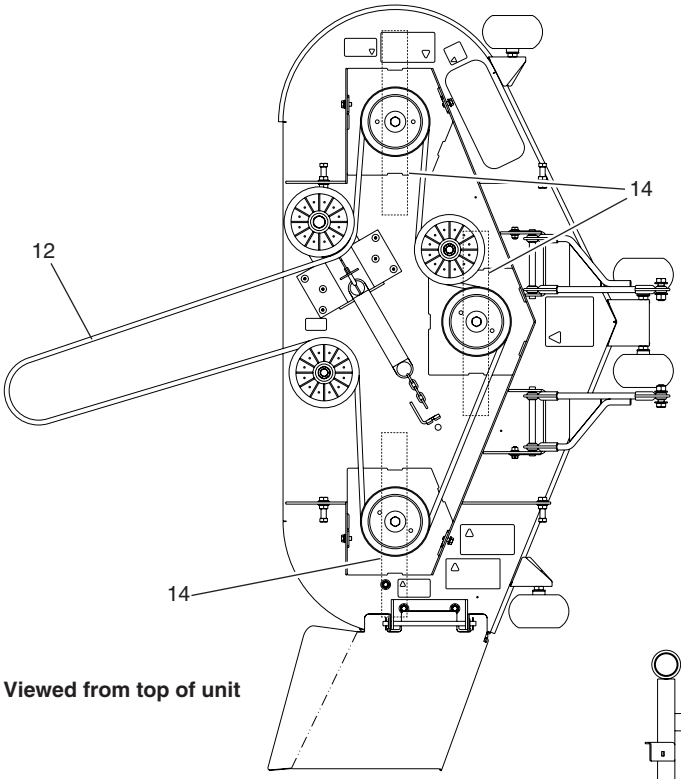
Part Number 600899

If you loose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.
If pump belt fails, steering control will be lost. Refer to owner's manual for inspection and replacement intervals and refer to above paragraph for emergency procedures.

MAINTENANCE

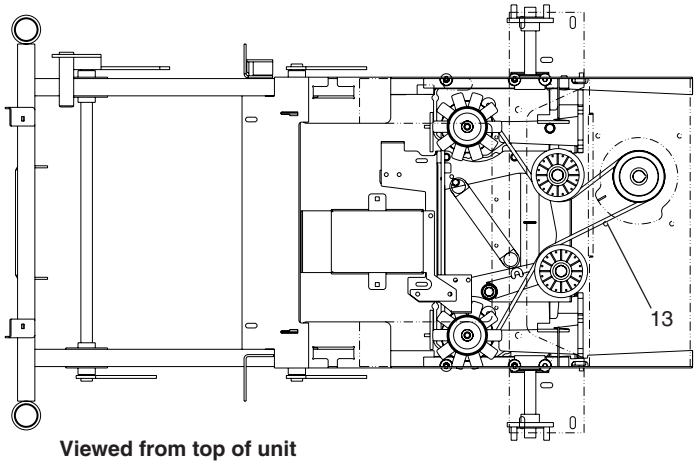
MAINTENANCE LOCATOR CHART





Viewed from top of unit

1a. Engine Oil Fill & Dipstick (Honda & Kohler)
1b. Engine Oil Fill & Dipstick (Briggs & Stratton)
2a. Fuel Filter (Honda)
2b. Fuel Filter (Briggs & Stratton)
2c. Fuel Filter (Kohler)
3a. Engine Air Cleaner (Honda)
3b. Engine Air Cleaner (Briggs & Stratton & Kohler)
4a. Engine Oil Drain Plug (Honda & Kohler)
4b. Engine Oil Drain Plug (Briggs & Stratton)
5. Battery
6. Fuel Tanks
7. Gauge Wheel Bearing Zerks (2)
8. Engine Oil Filter
9. Deck Lift Pivot Zerks (4)
10. Park Brake Switch (2)
11. Drive Tire
12. Deck Belt
13. Pump Belt
14. Blades
15. Engine Air Intake Screen
16. Front Gauge Wheel Tires



Viewed from top of unit

Figure 9-1

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	ANNUALLY OR 100 HOURS
Verify safety start interlock system	Prior to each use	
Visually inspect unit for loose hardware and/or damaged parts	Prior to each use	
Visually inspect tires	Prior to each use	
Check oil level, engine (1)	Prior to each use or every 4 hrs.	
Clean air intake screen (4)	Prior to each use or every 4 hrs.	
Clean foam element (4)	Prior to each use or every 4 hrs.	
Check fuel level	Prior to each use	
Blades - sharpen & securely fastened	Prior to each use	
Discharge chute - securely in place & in lowest position	Prior to each use	
Grease deck height pivots	x	
Grease gauge wheel bearings	x	
Change engine oil & filter (1) (3)	x	
Clean cylinder and head fins (a)	x	
Check battery connections	x	
Check tire pressure with a gauge	x	
Clean engine exterior (a)	x	
Replace air cleaner paper element (4)	x	
Clean and regap spark plugs (a)		x
Check pump and deck belt tension & condition (5)		x
Check fuel and hydraulic lines (6)		x
Check fuel valve and grommet (6)		x
Tighten lug nuts on wheels (2)		x
Change fuel filter		x
Replace spark plugs		x
Check park brakes		x
Change C-IZT pump/motor transmission oil & filter (7)	Every 200 hours or 2 years	

NOTES:
1. Initial oil change is after 5 hours of operation. Thereafter, change oil after every 40 hours operation. Change more often under dusty or dirty conditions and during hot weather periods.
2. Torque initially and after first 2 hours of operation.
3. Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual for recommendations and other maintenance items.
4. Service more often under dusty or dirty conditions.
5. Pump drive belt only - Inspect every 6 months or 100 hours and replace if worn or cracking is noticed. Otherwise, **replace every 200 hours or 2 years** whichever comes first.
6. Check fuel line hoses, fuel valve and grommet for any cracks or leaks
7. Change the filter and oil using 20W50 motor oil.
REFERENCES:
a — Refer to Engine Owner's Manual
NOTE: After completing maintenance cycle (100 hours), repeat cycle.

Introduction

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator/mechanic should follow on a routine basis.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Clear away heavy build-up of grease, oil and dirt, especially in the engine and under the seat platform areas; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Daily inspect mower for grass clippings and wire and string tangles. The underside of the mower deck will collect a build-up of grass clippings and dirt, especially when grass is wet or has high moisture content. This build-up will harden, restricting blade and air movement and will probably show a poorer quality of cutting. Therefore it should be removed routinely.

To do this it will be necessary to raise and block the deck, using jack stands or blocks, in the full up position and scrape the build-up from underneath.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Torque values

WARNING: Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

Torque values given below:

	Ft-lbs.	Nm
Wheel (lug) nuts	65-75	88.14-101.7
Blade spindle bolt top	118	160.01
Blade spindle bolt bottom	118	160.01

It is recommended that these be checked after the first 2 hours of operation, initially and every 50 hours following removal for repair or replacement.

For all other torques refer to the torque callout chart located elsewhere in this manual.

For engine torque values, see engine owner's manual.

Tires

It is important for level mowing that the tires have the same amount of air pressure. The recommended pressures are:

Drive wheels . . . . . 8-10 psi
Gauge wheels . . . . . 8-10 psi

Solid fill tires are not recommended for Hustler turf equipment. On any machine, with solid filled tires, the warranty claim will be denied.

WARNING: Explosive separation of a tire and rim can cause serious injury or death.
Do not attempt to mount a tire without the proper equipment and experience to perform the task.
Always maintain the correct tire pressure and never over inflate.
Never weld or heat a wheel and tire assembly as an explosion may occur. Welding can weaken or deform a wheel.
When inflating tires stand to one side and not in front of or over the tire assembly.
Check tires for low pressure, blemishes, damaged rims or missing lug bolts and nuts.

Lubrication

1. Grease the front gauge wheel bearings per the Maintenance Schedule. Use SAE multi-purpose grease.
2. Grease the four deck lift pivots, located to the side of the operator's footrest per the Maintenance Schedule. Use SAE multi-purpose grease.

Electrical system

The electrical system is a 12 volt, negative ground. Recommended battery size is a garden tractor BCI group U1R with 225 or better cranking AMP rating. A maintenance-free battery is recommended. Otherwise, follow battery manufacturer's maintenance, safety, storing and charging specifications.

The battery is located under the seat platform. Fig. 9-2

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

WARNING: Avoid skin and clothing contact with battery acid.
Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.
Do not drink the battery electrolyte.
Do not allow open flame near the battery when charging.
Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame.
Always remove the negative ground first and replace it last.
Do not overfill battery.
Electrolyte may overflow and damage paint, wiring or structure.
When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Clean the battery terminals with a solution of four parts water and one part baking soda when they become corroded.

WARNING: Shorts caused by battery terminals or metal tools touching metal tractor components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury.
Prevent the battery terminals from touching any metal tractor

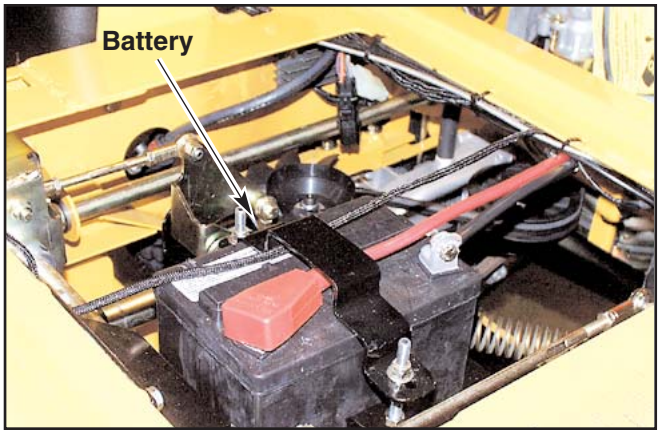


Figure 9-2

parts when removing or installing the battery.
Do not allow metal tools to short between the battery terminals and metal tractor parts.

WARNING: Incorrect battery cable routing could cause damage to the tractor and battery cables. This can cause sparks which can cause a battery gas explosion which will result in personal injury.
Always **disconnect** the negative (black) battery cable before disconnecting the positive (red) cable.
Always **connect** the positive (red) battery cable before connecting the negative (black) cable.

Common circuit failures are usually caused by shorting, corroded or dirty terminals; loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

The electrical system is protected by fuses located on the right fuel tank instrument panel. Fig. 9-3 The fuses are as follows:

Main - 20 amp, blade-type
Clutch/Aux - 10 amp, blade-type

Before attempting any failure diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Major overhaul or repair of the starting motor or charging system should be performed by trained technicians only.

Access to integrated pump/motor units

The integrated pump/motor units are accessed by lifting the seat platform. The seat platform is hinged at the front. To raise it, remove the two cap screws and tilt seat platform up and forward. (Fig. 9-4)

If the seat is equipped with the optional arm rest kit, make certain to place the control arms in the park brake position and pivot the arm rests upward before placing the seat platform in the full forward position to prevent damage to the arm rests.

Hydraulic system

The Hustler FasTrak 44/52 is equipped with two Hydro-Gear C-IZT integrated pump/motor transmissions. Fig. 9-5

Units built prior to serial number 03037002 are sealed for life and do not require scheduled service.

Units starting with serial number 03037002 and later have a replaceable filter which will require replacement every 200 hours or 2 years whichever comes first. The required service involves draining the oil and installing a new filter kit (Hustler p/n 789511). Fill with new 20W50 engine oil.

WARNING: Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum

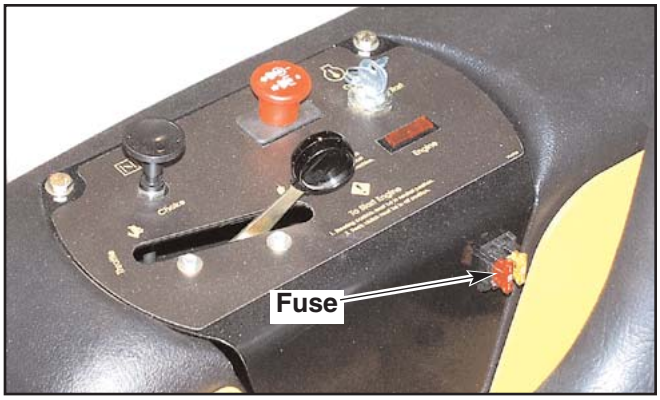


Figure 9-3

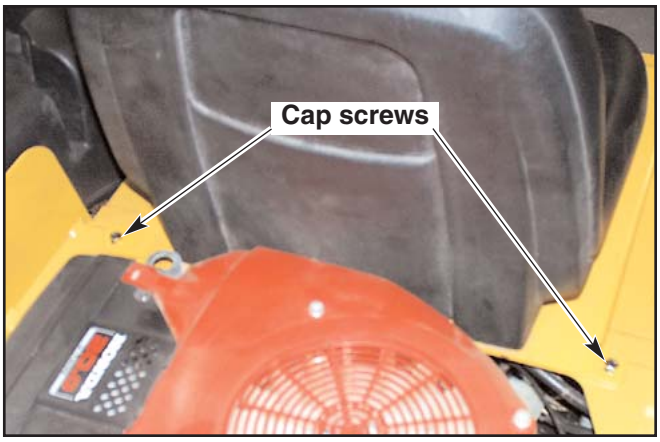


Figure 9-4

weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.

To replace the filter use the following procedure:

1. Raise and block the tractor up so the drive wheels are off the floor. Place the jack stands under the engine guard to support the machine. Fig. 9-6

WARNING: Make sure the transmissions are cool before performing service procedures.

2. Remove the drain plug and filter from the integrated pump/motor transmission and drain the oil into a drain pan. Dispose of the oil in a proper manner. This oil will not be re-used. Fig. 9-7
3. Install a new filter kit into the transmission.
4. Remove the lower side plug and install the magnetic plug included with the kit. Fig. 9-7

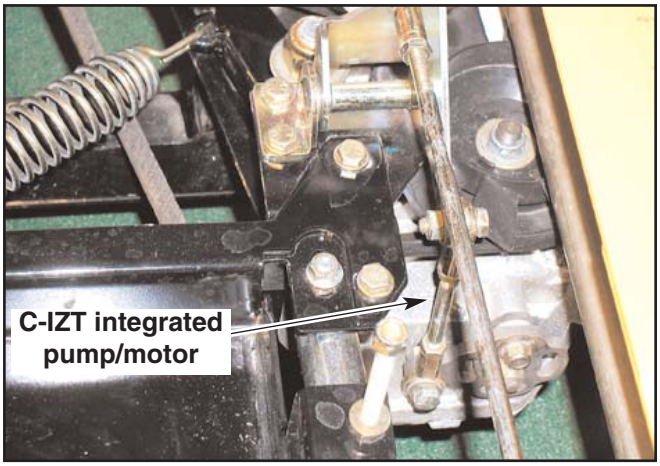


Figure 9-5

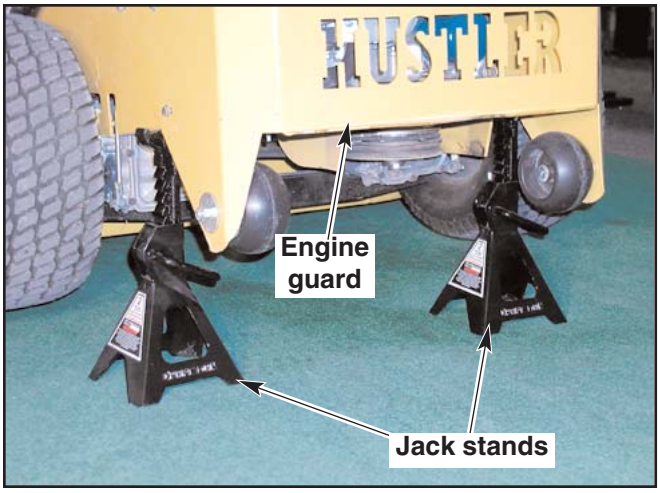


Figure 9-6

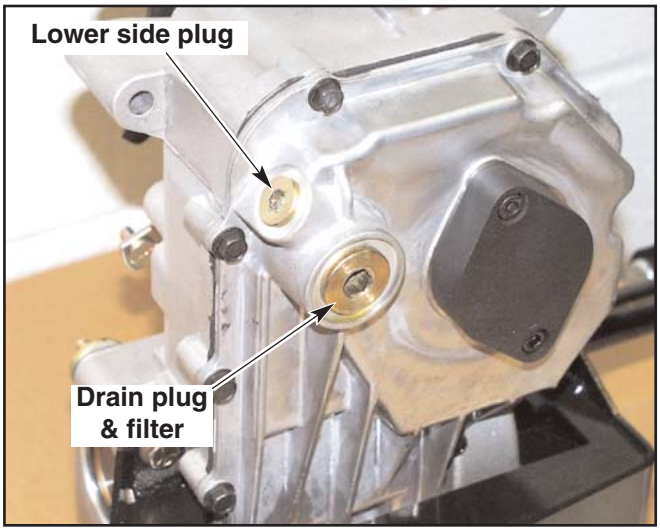


Figure 9-7

5. Repeat steps 2 through 4 for the other side.
6. Lower the tractor. **NOTE:** The FasTrak must be level when filling and checking the oil.
7. Remove the breather hose and nipple from the top of the transmission and fill with new, clean 20W50 engine oil. It will require approximately 2 - 2.46 quarts of oil to fill the transmission. Re-attach the nipple and breather hose. Fig. 9-8

WARNING: Do not overfill. If you overfill the unit while it is "cold", it may overflow as it reaches normal operating temperatures. The oil level should be within the operating range indicated on the dipstick. This will allow the space needed for the oil to expand as it warms up. Fig. 9-9

8. Start the unit and drive it forward and rearward 5 times approximately 10 - 20 feet each time.
   If it feels smooth then the unit is ready to operate.
   If either side moves slower than the other or sluggish then the system will need to be purged. Follow steps 9 through 12 until the air is purged from the system.
9. Raise and block the tractor up so the drive wheels are off the floor.
10. With the bypass valves open (Fig. 9-10), on both transmissions, an operator on the seat and the engine running at 1/2 throttle, slowly move both control levers forward and rearward 5 to 6 times to allow air to be purged from the system. As this occurs, the oil level will drop.
11. With both bypass valves closed (Fig. 9-11) and the engine running, slowly move both control levers forward and rearward 5 - 6 times. Stop engine and place steering levers in the park brake position. Lower the tractor and check the oil level. Add oil as required.
12. Start the unit and drive it forward and rearward 5 times approximately 10 - 20 feet each time.
    If it feels smooth then the unit is ready to operate.
    If either side moves slower than the other or sluggish then the system will need to be purged again. Follow steps 9 through 12

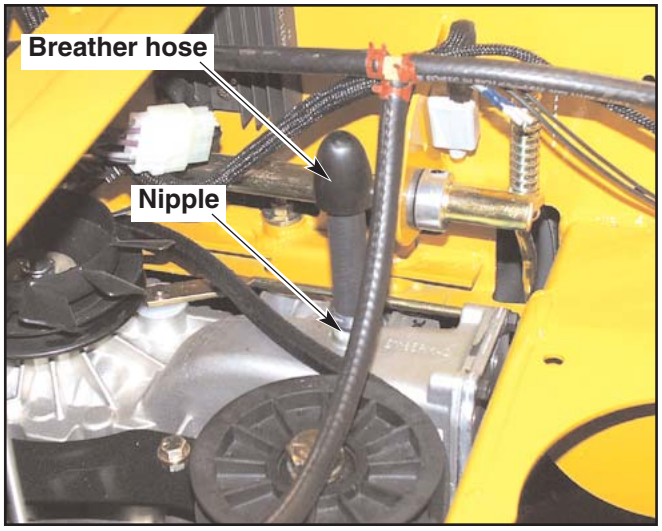


Figure 9-8

WARNING: When washing the mower, direct spray away (especially if using a power washer) from the Hydro-Gear C-IZT transmission's seals to prevent water intrusion and to ensure component performance.

Fuel system

DANGER: Observe usual fuel handling precautions:
Do not smoke while refueling.
Do not fill tank with engine running or while engine is hot. Clean up any gasoline spills.
Allow engine to cool before storing machine inside a building.
Keep fuel away from open flame or spark and store machine away from open flame or spark if there is fuel in the tank.
Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive. A fire or explosion from gasoline can burn you and others and can damage property.
Refuel outdoors preferably, or in well ventilated areas.
Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30 day supply of gasoline.
Always place gasoline containers on the ground away from your vehicle before filling.
Do not fill gasoline containers inside a vehicle or on a truck or trailer as interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground. If this is not possible, then refuel the equipment on the truck or trailer using a portable container and not a gasoline dispenser nozzle. If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.

WARNING: Gasoline is harmful or fatal if swallowed.
Long-term exposure to vapors can cause serious injury and illness.
Avoid prolonged breathing of vapors.
Keep face away from nozzle and gas tank or conditioner opening.
Keep gas away from eyes and skin.

The fuel tanks are located in the tractor's fenders. (Fig. 9-12) Total capacity for the fuel tanks is 12.2 U.S. gallon (46.18 liter).

When filling the fuel tanks disengage deck clutch, place control levers in park brake position, and stop tractor engine. Clean around the fuel tank

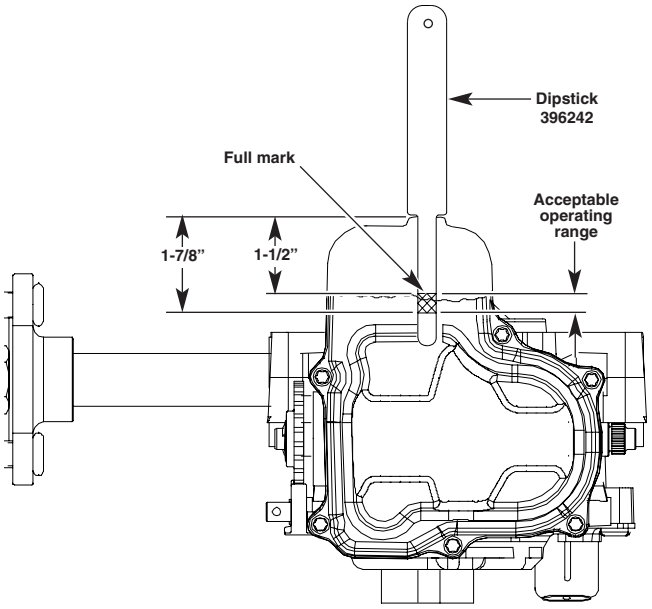


Figure 9-9

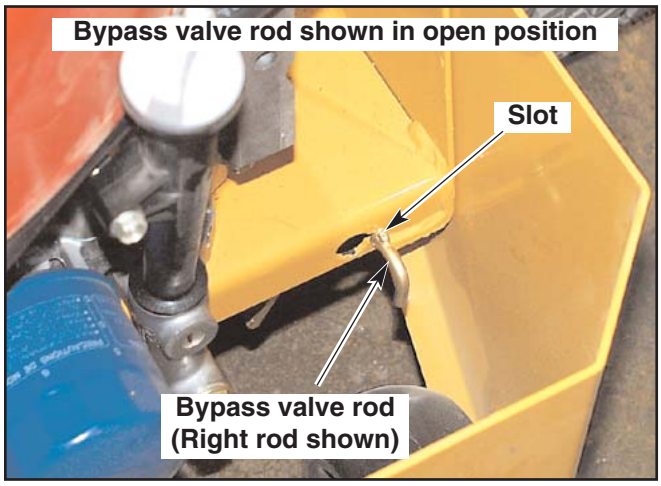


Figure 9-10

cap and remove the cap and begin filling. When finished, screw the cap on securely and wipe up any spilled gasoline.

Use regular unleaded gasoline with an octane rating of 87 or higher. **IMPORTANT:** Never use methanol, gasoline containing methanol, or gasohol containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Using a fuel stabilizer/conditioner in the tractor can provide benefits such as:

1. Keeps gasoline fresh during storage of 90 days or less. For longer storage, drain the fuel tanks.
2. Cleans the engine during operation.
3. Eliminates gum-like varnish buildup in the fuel system.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas. Follow the gas stabilizer/conditioner manufacturer's directions for best results.

The fuel filter (Fig. 9-13A, 9-13B & 9-13C) is installed in the fuel line between fuel tanks and engine fuel pump on the rear left side of the engine. Replace filter annually or after every 100 hours of operation, whichever occurs first. For fuel filter removal refer to the engine owner's manual

When replacing the fuel filter, check the fuel line hoses and fuel shut-off valve grommet for any cracks or leaks. Replace as needed.

Fuel Shut-off Valves

On early units a fuel shut-off valve is located on the outlet port of each fuel tank. (Fig. 9-14) Close these valves (turn clockwise) to prevent fuel flow to the engine. To drain a fuel tank equipped with this fuel shut-off

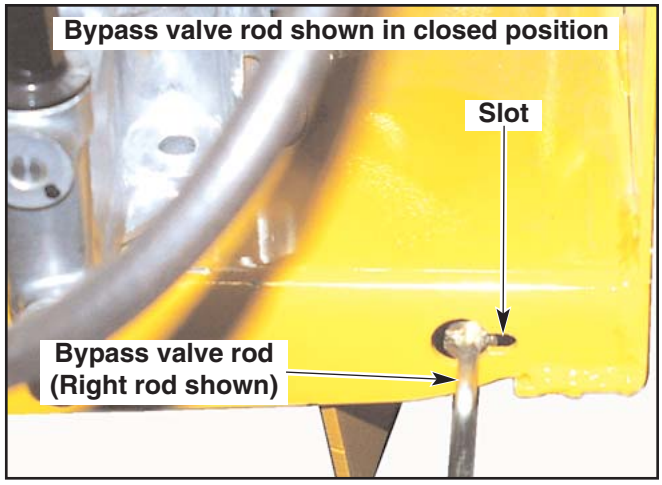


Figure 9-11

Figure 9-12

valve use the following method:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Close the fuel shut-off valve on both of the fuel tanks.
3. Trace the fuel line from the shut-off valve to the tee. Loosen the hose clamp and remove the fuel line from the tee.
4. Place the end of the fuel line in a clean certified fuel container and open the fuel shut-off valve to drain the fuel from the fuel tank.
5. When fuel tank is drained re-route the fuel line to the tee and attach to the tee. Clamp fuel line to tee.
6. Fill fuel tank with proper grade of gasoline and open shut-off valves.

Current production units have a fuel shut-off valve (Hustler p/n 745059) located behind the seat to the right side of the operator. (Fig. 9-15) Close this valve (center position) to prevent fuel flow to the engine. The valve's two other positions are front and rear. To drain a fuel tank equipped with this fuel shut-off valve kit use the following method:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Turn the fuel valve to the closed position (middle position). Fig. 9-15
3. Disconnect the tank to fuel valve line from the valve and clamp or cap the end of it.
4. Route the fuel line until it is lower than the fuel tank fitting.
5. Place the end of the fuel line in a clean certified fuel container and unclamp or uncap the line to permit the fuel to drain from the fuel tank.
6. When fuel tank is drained re-route the fuel line to the shut-off valve and attach it to the tee. Clamp fuel line to shut-off valve.
7. Fill fuel tank with proper grade of gasoline and open shut-off valve (front or rear position).

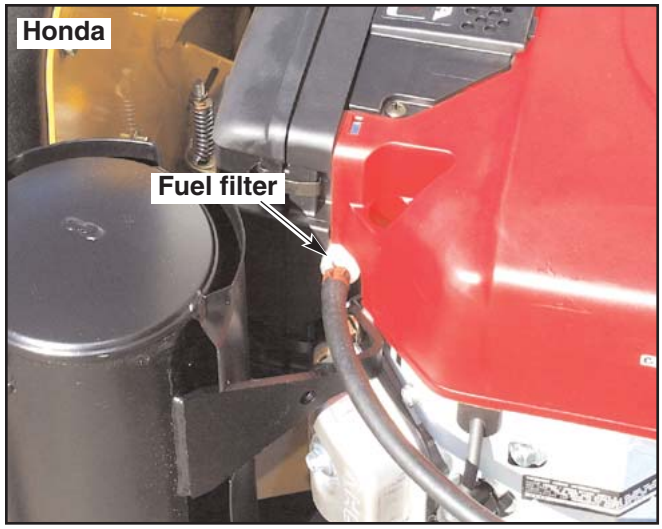


Figure 9-13A

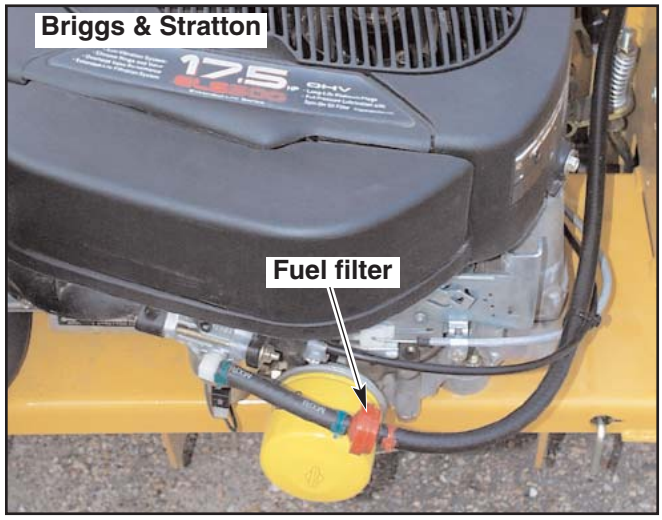


Figure 9-13B

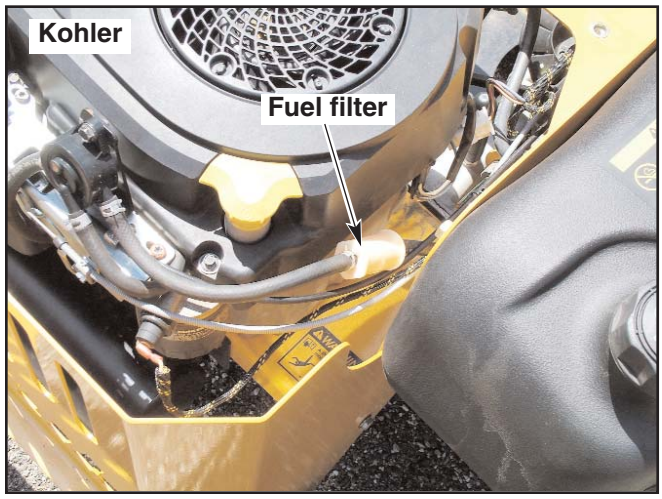


Figure 9-13C

Engine oil and filter

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and oil filler tube are located as shown in Fig. 9-16A, 9-16B & 9-16C. Tractor must be setting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

Change the engine oil and filter after the first 5 hours of operation, per the engine manufacturer's recommendations after that. If tractor is being operated in extremely dirty conditions, then it is recommended oil be changed more frequently.

The oil drain and oil filter are located at the rear of the engine. Fig. 9-16A, 9-16B & 9-16C

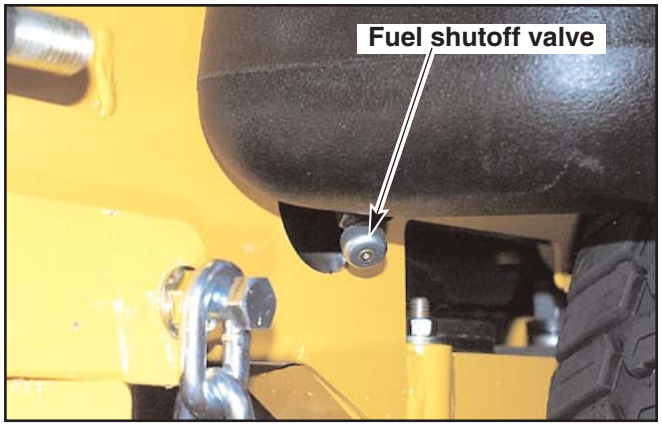


Figure 9-14

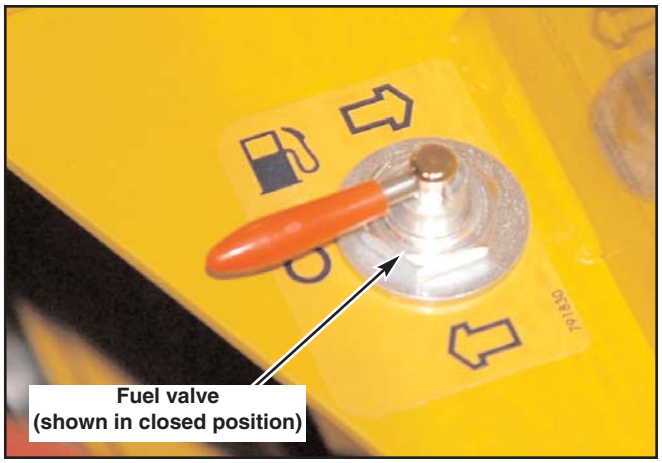


Figure 9-15

Belt replacement

Figures 9-17 and 9-18 show diagrams and descriptions of the unit's belt drive systems.

Inspect these belts frequently for wear and serviceability. Replace a belt that shows signs of severe cuts, tears, separation, weather checking and cracking, or burns caused by slipping. Slight raveling of belt covering does not indicate failure, trim ravelings with a sharp knife.

WARNING: If the pump belt fails, loss of control will occur especially when operating on a slope. **If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.**

Inspect the belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace the pulley when this is the case, otherwise belt will lose power and slip excessively.

Never pry a belt to get it on a pulley as this will cut or damage the fibers of the belt covering.

Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

Deck belt replacement

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. Remove the deck belt covers.
4. Release the deck belt tension by pulling on the belt tension chain and

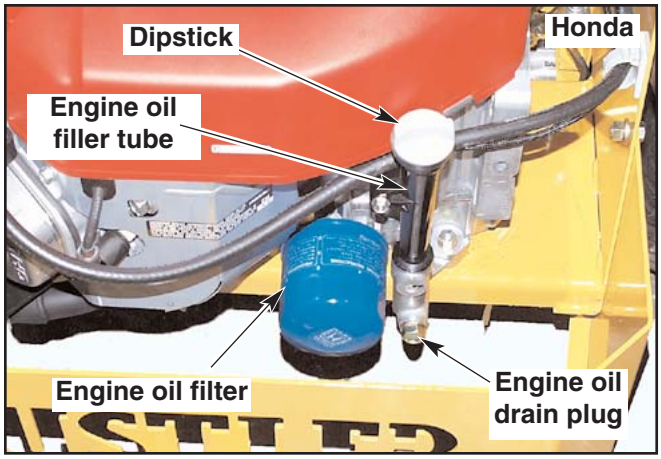


Figure 9-16A

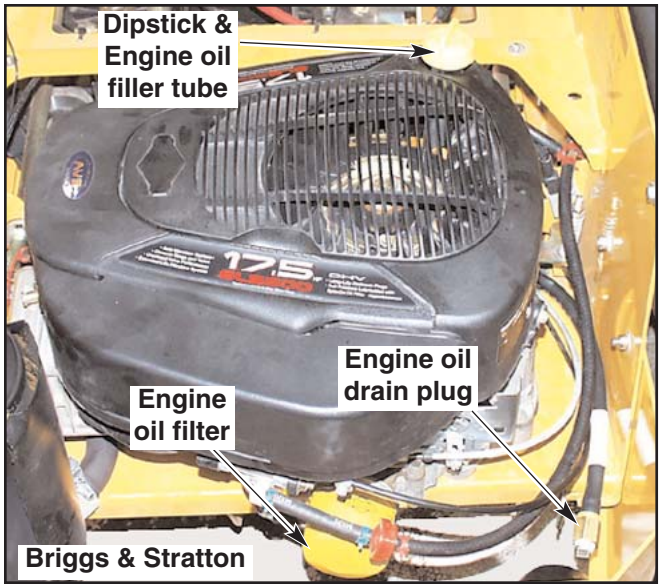


Figure 9-16B

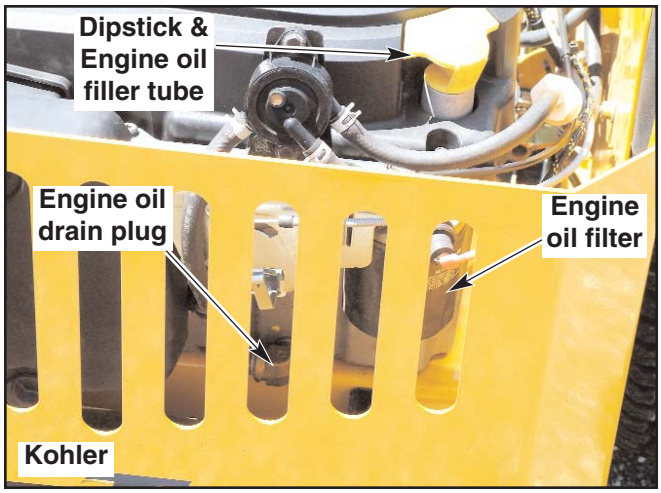


Figure 9-16C

sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 9-18

5. Pull the idler to the left of the machine to provide maximum belt clearance.
6. Remove the existing belt and replace with a new belt.
7. Route the new belt per Fig. 9-17.
8. Re-tension the deck belt idler per the Deck drive belt adjustment section located elsewhere in this manual.

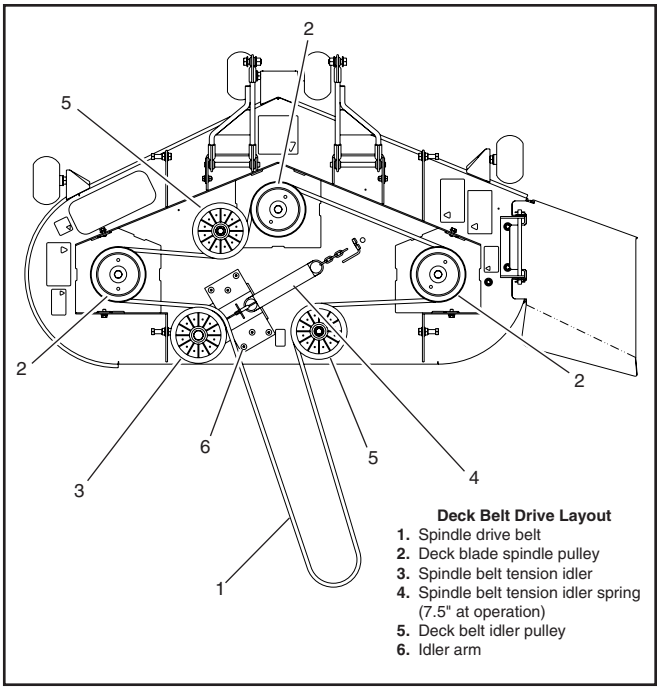

Deck Belt Drive Layout
1. Spindle drive belt
2. Deck blade spindle pulley
3. Spindle belt tension idler
4. Spindle belt tension idler spring (7.5" at operation)
5. Deck belt idler pulley
6. Idler arm

Figure 9-17

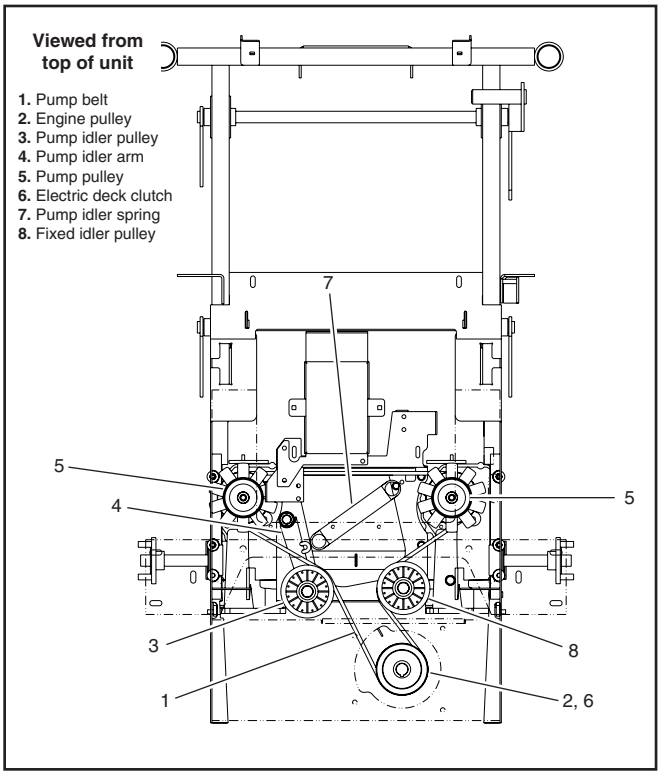


Figure 9-18

9. Re-install the deck belt covers.
10. Re-attach the negative battery cable.

Integrated pump/motor drive belt replacement

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position.** Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. The deck belt must be removed from the clutch pulley first by releasing the deck belt tension by pulling on the belt tension chain and sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 9-17

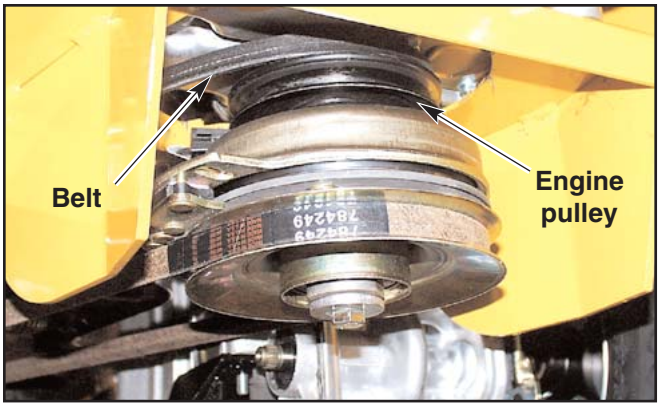


Figure 9-19

4. Remove the deck drive belt from the electric clutch pulley. This belt does not need to be removed from any of the other pulleys.
5. Release the tension from the integrated pump/motor belt by pulling on the idler pulley (extending spring carefully) and sliding the belt over it. Use caution when releasing the idler pulley as there is still tension on it and it will snap back into position. Fig. 9-18
6. Slide the belt off the engine pulley. The belt will have to be slid above the engine pulley to allow the belt to be removed from the other pulleys. Fig. 9-19
7. Slide the belt over the integrated pump/motor pulleys.
8. Slide the belt off of the fixed idler pulley.
9. The belt can now be removed from above the engine pulley.
10. Install new belt by sliding it up and over the engine pulley. Make certain it is not in the pulley groove at this time but is above the pulley.
11. Slide the belt over the fixed idler pulley and then over the integrated pump/motor pulleys.
12. Slide the belt onto the engine pulley.
13. Pull the idler pulley over and slide the belt onto it. Make certain to keep fingers from getting between the belt and the pulley when the pulley is released and tension is re-established.
14. Re-install the deck drive belt on the electric clutch pulley and make sure it is routed properly on all of the deck pulleys.
15. Re-tension the deck belt idler per the Deck drive belt adjustment section located elsewhere in this manual.
16. Re-attach the negative battery cable.

Mower blade maintenance

Check the mower blades daily, they are the key to power efficiency and well groomed turf. Keep them sharp, a dull blade will tear rather than cut the grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power from the engine.

Replace any blade which is bent, cracked or broken.

WARNING: Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury. Replace worn or damaged blades.

DANGER: Never work with blades while engine is running or deck clutch switch is engaged (on). Always place deck clutch switch in the **disengaged** position, place control levers in the park brake position and turn engine off and disconnect negative battery cable. Block up mower when you **must** work under it. Wear gloves when handling blades. **Always check for blade damage** if mower strikes rock, branch or other foreign object during mowing!

WARNING: Always wear adequate eye protection when grinding mower blades.

Always place deck clutch switch in the **disengaged position,** place control levers in the park brake position and turn engine off and disconnect negative battery cable. Block up mower when you **must** work under it. Wear gloves when handling blades. **Always check for blade damage** if mower strikes rock, branch or other foreign object during mowing!

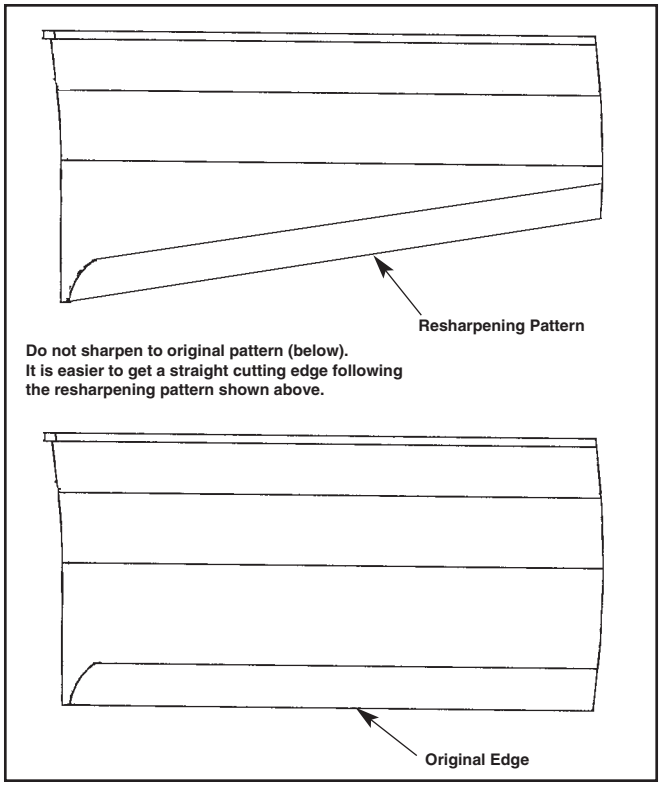

Resharpening Pattern
Do not sharpen to original pattern (below).
It is easier to get a straight cutting edge following
the resharpening pattern shown above.
Original Edge

Figure 9-20

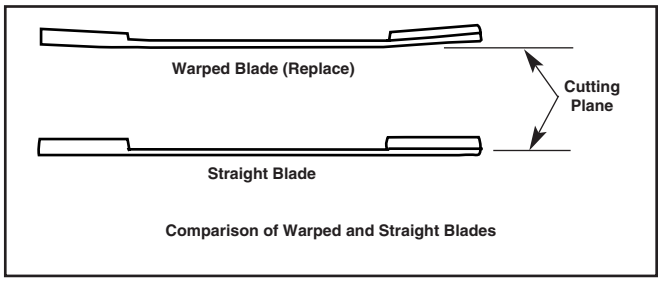


Figure 9-21

Mower blade removal

Use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath.

Sharpen the blades on a grinder following pattern as shown (Fig. 9-20). Touch-up sharpening can be done with a file.

Check the blades for balance following grinding. A commercial balancing tool is available through most hardware supply stores, or balancing can be done by placing the blade on an inverted line punch or 5/8" bolt. Blade should not lean or tilt. Spin the blade slowly, blade should not wobble. If blade is out of balance, true it up before reinstalling.

Lay the blade on a flat surface and check for distortion (Fig. 9-21 and 9-22). Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Torque bolts on spindles to 118 foot-pounds when reinstalling blades.

IMPORTANT: The blade sail (curved part) must be pointing upward toward the inside of the deck to ensure proper cutting.

WARNING: When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.

WARNING: Failure to correctly torque the bolt may result in the loss of the blade which can cause serious injury.

WARNING: Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing them.

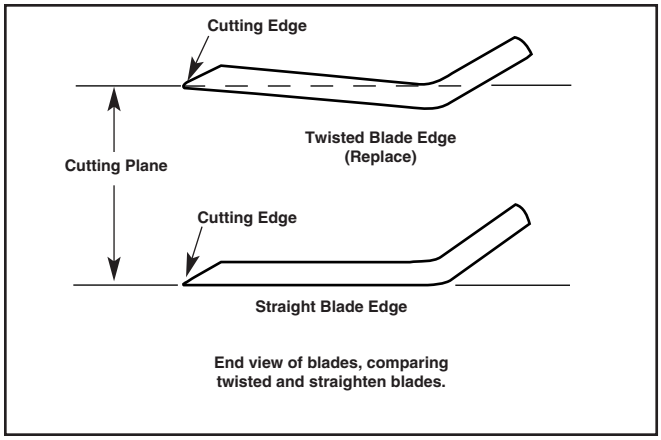

Cutting Edge
Twisted Blade Edge
(Replace)
Cutting Plane
Cutting Edge
Straight Blade Edge
End view of blades, comparing
twisted and straighten blades.

Figure 9-22

ADJUSTMENTS

Introduction

Your FasTrak 44/52 was adjusted before it left the factory and was checked during predelivery setup. However, after start-up and continued use, a certain amount of break-in wear will cause some adjustments to change.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Clear away heavy build-up of grease, oil and dirt, especially in the engine and under the seat platform areas; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Seat adjustment

The seat can be adjusted forward and rearward by removing the two cap screws that lock the seat platform in place and pivoting the seat platform up and forward. Then loosen the four cap screws on the underneath side of the operator's platform. Position the seat where you have the best control of the machine and are the most comfortable and then tighten the cap screws. Fig. 9-23

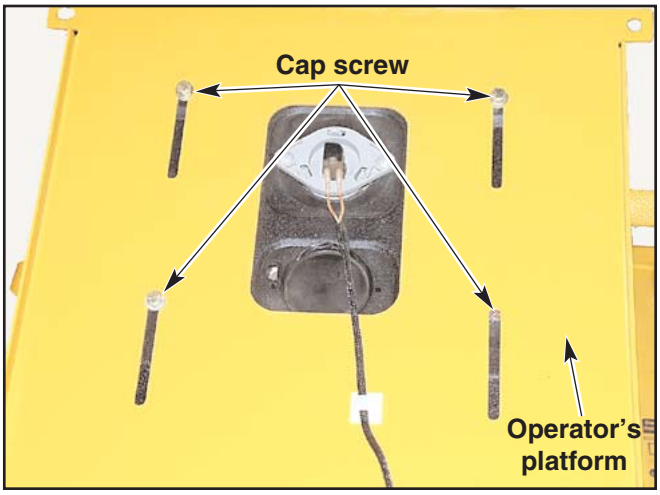


Figure 9-23

Control lever adjustment

The control levers can be adjusted for operator comfort. By loosening the cap screws that attaches the upper control lever to the lower lever (Fig. 9-24), the upper control lever can be pivoted to fit the operator's personal preference.

The control levers can also be adjusted up and down. Remove the cap screws and slide the upper control lever up or down and align the holes in it with the holes in lower lever. Re-install the cap screws and tighten.

The control levers should be adjusted so that they align with each other when in the neutral position.

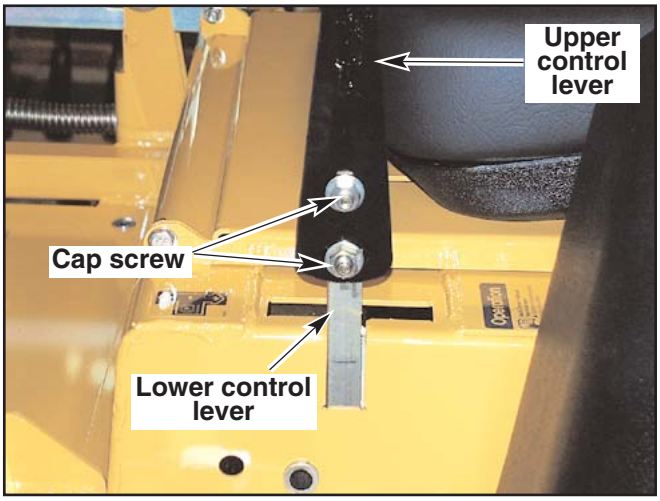


Figure 9-24

Steering linkage

The neutral adjustment for the control levers in the neutral position is discussed in this section.

The tractor steering has been factory adjusted to eliminate creeping when the control levers are in the neutral position (Fig. 9-25). However, should the tractor begin to creep, the control lever linkage can be adjusted as follows:

Control Lever Neutral Adjustment

Before considering any adjustment, check the tire air pressure. Unequal tire pressure will cause the tractor to drift to one side. Refer to tire pressure information in the Maintenance section of this manual.

Fine adjustment to the unit's steering is made with the adjustable pump linkage rods. Fig. 9-26

Neutral is properly adjusted when the control levers are in the neutral position and the drive wheels are not turning.

If the tractor creeps in the neutral position the control linkage may be adjusted as follows:

1. Raise and block the tractor up so the drive wheels are off of the floor.

WARNING: Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.

2. Position the control lever in the neutral position. Disengage the deck clutch switch Fig. 9-25.
3. Loosen the nut on the steering dampener's rear ball stud. Fig. 9-26

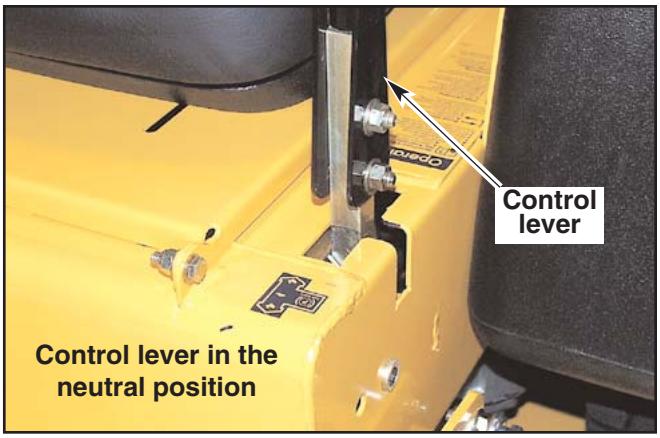


Figure 9-25

4. Remove the cotter key that connects the brake link to the brake pawl. Remove the brake link from the brake pawl. Fig. 9-30
5. Start the engine and observe which way the wheels are rotating.
6. If wheel(s) are rotating forward, loosen the jam nuts on the pump linkage rods and rotate the rod to lengthen the steering control linkage until the wheel(s) come to a stop. Fig. 9-26
   NOTE: The left linkage controls the left integrated pump/motor and the right linkage controls the right integrated pump/motor. Repeat for the opposite side if necessary.

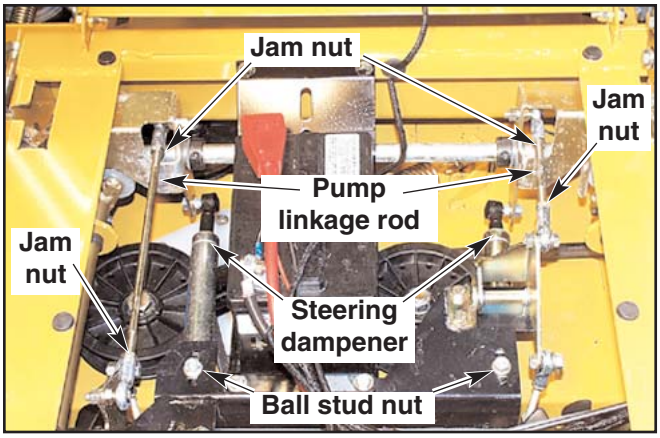


Figure 9-26

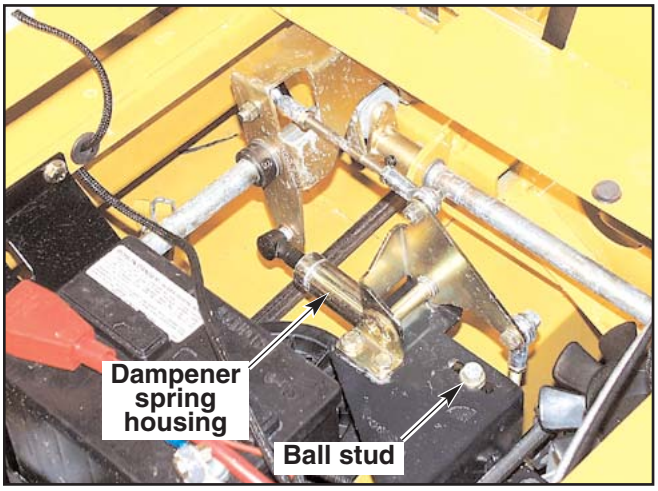


Figure 9-27

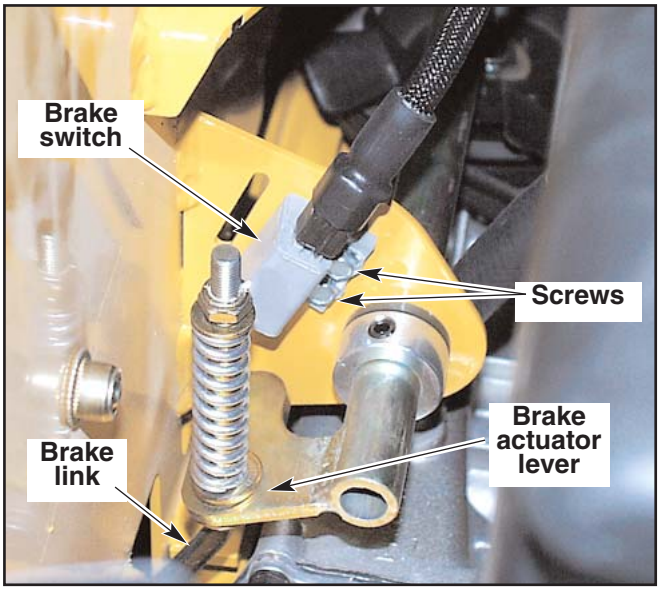


Figure 9-28

If wheel(s) are rotating in reverse then loosen the jam nuts on the pump linkage rods and rotate the rod to shorten the steering control linkage until the wheel(s) come to a stop. Fig. 9-26

Repeat for the opposite side if necessary.

7. When both wheels remain in neutral, tighten the jam nuts to lock the pump linkage rod in place.
8. Test again by moving the control levers forward and backward before returning them to the neutral position. If the tires remain in neutral, the unit is now ready for operation.

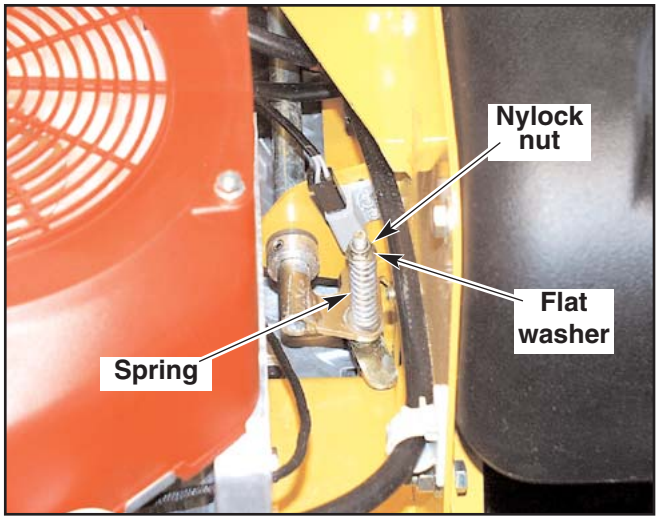


Figure 9-29

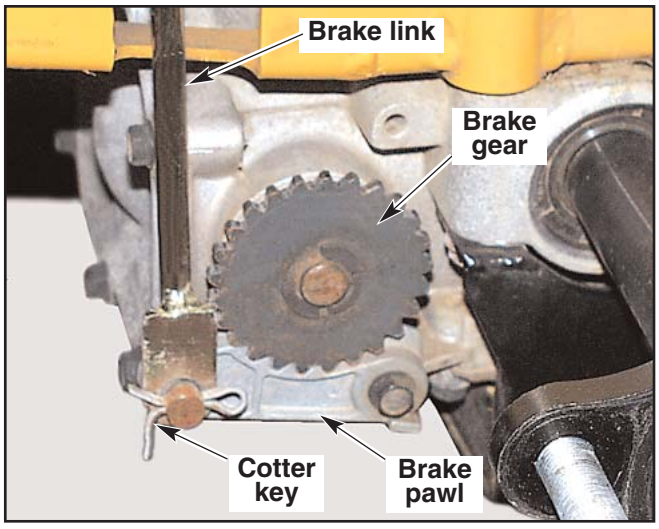


Figure 9-30

9. Shut the engine off. Place the control levers in the neutral position and reconnect the brake link to the brake pawl. Re-insert the cotter key. Fig. 9-30
10. Re-tighten the steering dampener's rear ball stud after adjusting the dampener per the following instructions:

Steering dampener

The steering dampener (Fig. 9-27) is spring loaded to return the control levers to the neutral position from the reverse position. This gives the operator a sense of neutral during operation.

If the tractor does not return to neutral from reverse then adjust as follows:

To set the steering dampeners in the correct operating position follow these steps:

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. Place the control lever in the neutral position. Fig. 9-25
3. Loosen the steering dampener's rear ball stud.
4. Pull the dampener spring housing, to the rear, past the point that the internal spring is engaged.
5. Release the dampener spring housing and allow the internal spring to bring the housing back to the neutral position.
6. Tighten the nut on the steering dampener's rear ball stud.
7. To check, move the control lever to the reverse position and release. The control lever should return to the neutral position. If not, repeat steps 1 thru 6.

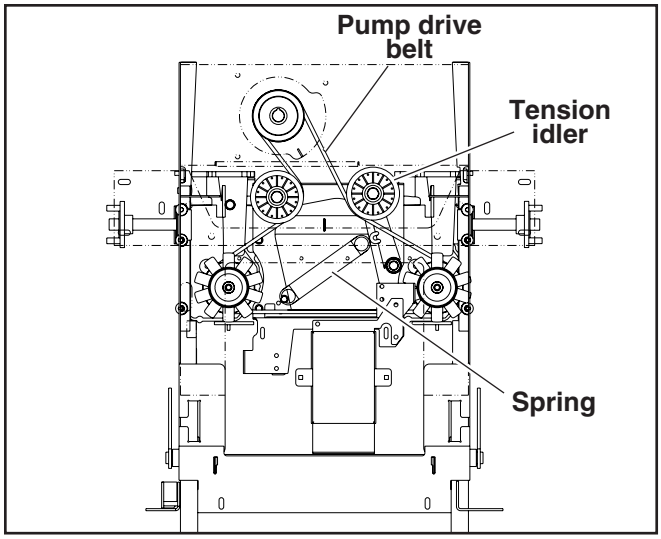


Figure 9-31

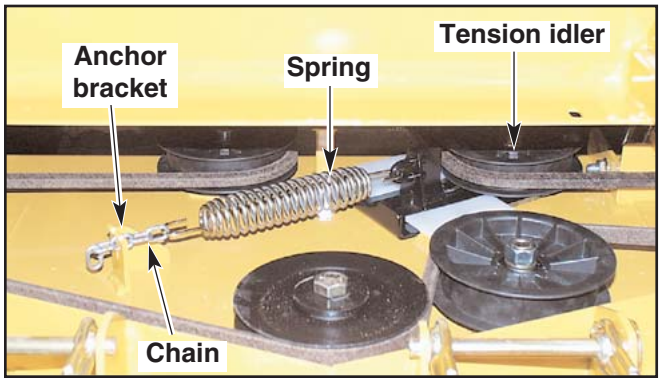


Figure 9-32

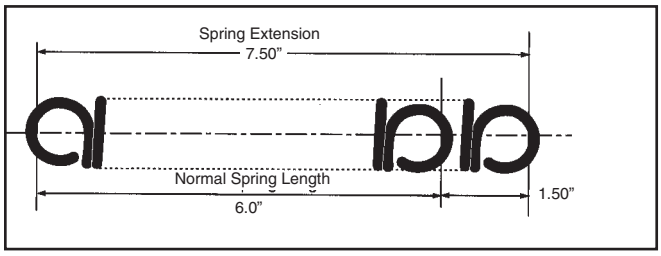


Figure 9-33

Park brake spring adjustment

Occasionally check the park brake spring adjustment using the following method:

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. Position the control lever in the neutral position.
3. Make sure the brake actuator lever and the brake link are all the way down. Fig. 9-28
4. Tighten the nylock nut on top of the spring assembly until it is touching the top flat washer. **Do not** compress the spring. Fig. 9-29
5. Place the control lever in the park brake position. The brake pawl should now be activated and engaging the integrated pump/motor brake gear. Fig. 9-30
6. Repeat steps 2 thru 4 for the other side.

Park brake switch adjustment

Occasionally the park brake switch may need adjustment. Use the following method to adjust the switch:

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Place control levers in the park brake position.
2. Loosen the screws holding the switch. Fig. 9-28

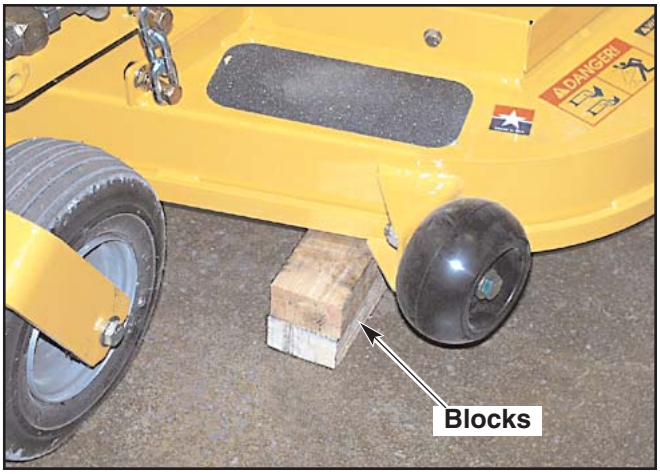


Figure 9-34

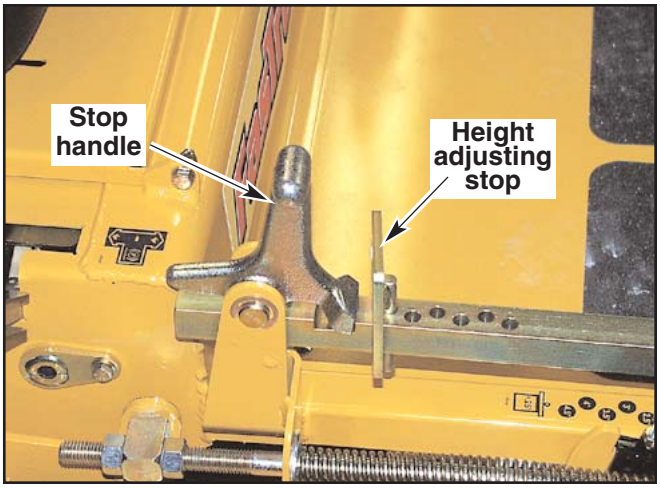


Figure 9-35

3. Slide the switch all the way down until it is fully activated (button pushed in) against the brake actuator lever.
4. Tighten the screws.

Hydraulic pump belt adjustment

The pump drive belt tension remains constant by means of a tension idler and spring (Fig. 9-31). There is no tension adjustment of this belt. **NOTE: Inspect the belt every 100 hours and replace as needed. Replace the belt every 200 hours or every two (2) years whichever comes first.**

WARNING: If the pump belt fails, loss of control will occur especially when operating on a slope. **If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.**

Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring (Fig. 9-32). The spring tension should be such that the belt does not slip under normal operating load conditions, assuming the belt is not excessively worn or damaged. As belt stretches and wears in, adjustment may become necessary. To increase belt tension, move the spring chain one (or more) link(s) at the anchor bracket (Fig. 9-32). Installed spring length should be 7.50" ± .3" (19.05 cm ± .76 cm) originally with adjustments of .60" (15.2mm) per chain link. (Fig. 9-32 & 9-33)

IMPORTANT: Do not over tension the spring to compensate for a badly worn belt or pulley.

Engine RPM setting

The FasTrak 44/52 is designed so that the engine will run at 3400 rpm with integrated pump/motor load only. At this speed the integrated pump/motors are running at their maximum rated speed.

Deck leveling and height adjustment

The mower deck has three areas that may need to be checked and adjusted periodically. Before considering any mower deck leveling adjustments, check that the tire air pressure is within the specified range.

Deck level adjustments

Leveling the deck must be done in the following manner and order:

1. Check tire pressures to make certain they are properly inflated before starting to level deck. The recommended pressures are as follows:
   Drive wheels tire pressure .....8 - 10 psi
   Gauge wheels tire pressure.....8 - 10 psi

WARNING: Stop engine. Make sure deck clutch switch is **in the down (OFF) position.** Remove ignition key. Place control levers in the brake position before leaving machine.

2. Park the unit on a flat surface.
3. Raise deck and place 3" of blocking under all 4 corners of the deck (Fig. 9-34). This will set the cutting height at 3 ¼ ". **NOTE:** Back of deck will automatically be set ¼" higher.
4. Set cutting height at 3 ¼" in the height indicator by placing the height adjusting stop in the 3" hole, and turning the height stop so that the flat side is against the stop handle. Fig. 9-35
5. Clamp the height adjusting stop against the stop handle (Fig. 9-35). This will assure that the height will not move during the setting process. Otherwise, spring pressure from the deck lift springs will tend to pull the stop away from the handle.
6. Loosen all nuts on the deck lift threaded rods, and the hardware on the adjuster (on the right front), until **all** the deck lift chains are loose, **and** the deck is sitting tightly on all four blocks. Fig. 9-36, 9-37, 9-38
7. Loosen the two nuts on the front of height indicator so that the foot pedal is free. Fig. 9-39
8. Start the leveling process on the **left front** of the tractor.
9. Set the amount of threads protruding on the deck lift rod from the lift block at approximately 1". Fig. 9-40
10. Jam both nuts against the block.
11. Push or pull on the deck lift foot pedal until the **chain on the left front** just becomes tight, making sure that the deck stays tight against the 3" block.
12. While keeping the chain tight, tighten the nuts against the deck lift block on the height indicator rod. Fig. 9-39
13. Go to the **right front** of the tractor.
14. Loosen the 5/16" jam nut on the adjuster lift chain (Fig. 9-38), and back the adjuster bolt out to allow the adjuster to move up and down freely.
15. Be sure that adjuster is free to move up and down.
16. Tighten the adjuster bolt until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
17. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving. Fig. 9-38
18. Tighten the hardware holding the chain and adjuster onto the deck lift arm.
19. Go to the **right rear** of the tractor.
20. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 9-38
21. Tighten the appropriate nut until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
22. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
23. Go to the **left rear** of the tractor.
24. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 9-36
25. Tighten the appropriate nut until the chain just becomes tight.
26. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
27. Compress the deck lift assist springs so that there is 1" of space between the front nut on the spring and the rear nut on the deck lift block (Fig. 9-40). Typical both sides.
28. When completed, all chains will be tight, and deck cutting height will be set to the deck height indicator.

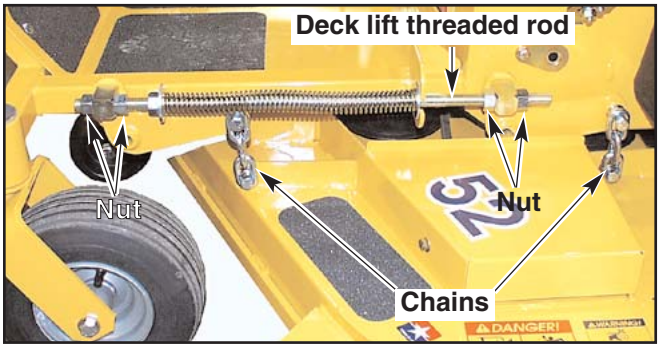


Figure 9-36

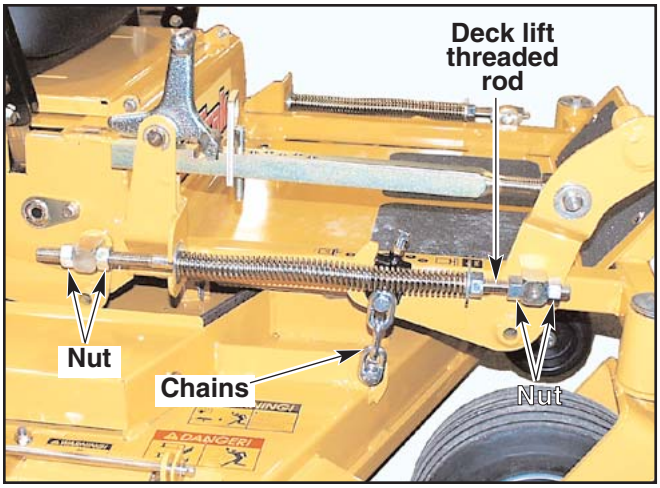


Figure 9-37

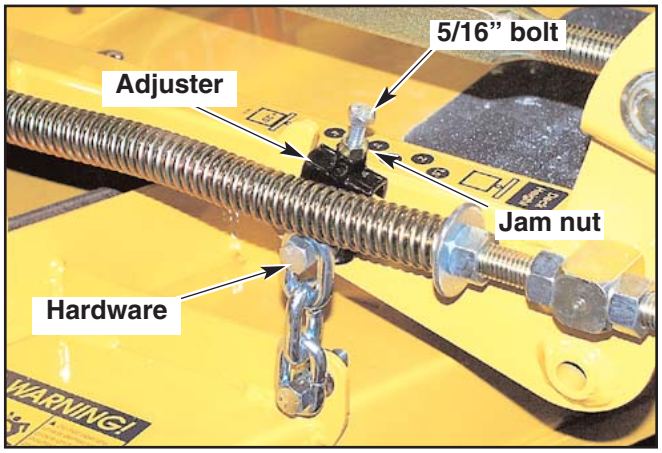


Figure 9-38

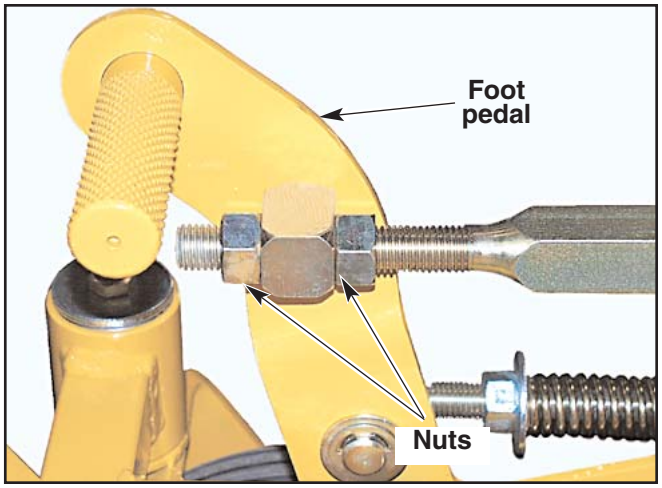


Figure 9-39

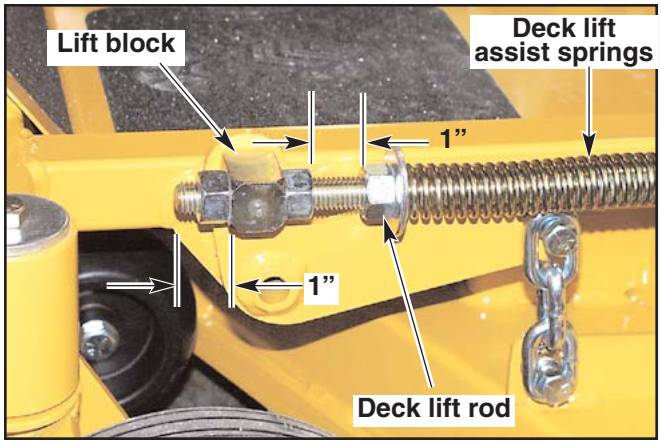


Figure 9-40

Part Number Index

Part No.	Page No.
Index	
Part Numbers	
000323	4-13
000331	4-3, 4-5, 4-7, 4-9, 4-13
000398	4-3, 5-5
005116	6-5, 6-11
005231	4-5
011320	2-5
015495	3-5
015818	4-13
016253	4-9
016287	4-7
016972	6-5, 6-11
017004	4-3, 4-9
017038	4-3, 4-5
017129	6-5, 6-11
017251	3-7
017616	7-2
018846	3-5
019521	5-4
023655	3-7
024927	3-3, 4-3, 4-5, 4-7, 4-9
025007	3-9
025296	3-9
026237	4-15
028118	3-9, 6-5, 6-11
029868	3-3
029876	4-3, 4-5, 4-7
030817	4-7, 4-9
031997	4-9, 5-5, 6-3, 6-9
034272	3-3, 3-5, 3-7, 3-9, 4-3, 4-5, 4-7, 4-9, 5-5, 6-3, 6-9
034280	3-3, 4-5, 4-7, 4-9, 5-5, 6-3, 6-9, 7-4
036236	3-7
036244	4-9
042630	5-2
043067	3-9
043570	4-5, 4-9, 5-5
044255	4-7, 4-9
045898	4-15
046821	6-5, 6-11
047654	7-4
050161	3-9, 4-3, 4-5, 4-7
052837	4-3
053199	4-9, 5-5, 6-3, 6-9
054502	2-5, 6-3, 6-5, 6-9, 6-11
055749	3-5, 7-2
055822	4-13, 6-3, 6-9
055939	3-3, 4-9
055947	4-7, 4-15
056077	4-3, 4-5
058776	3-3, 6-3, 6-5, 6-9, 6-11, 7-4
059832	3-7, 4-15
059931	6-5, 6-11
061077	5-4
061101	3-9
063198	3-7
063297	6-3, 6-9
064006	6-5, 6-11
064014	7-4
066878	3-10
068478	1-1
078386	3-7
079186	6-5, 6-11
080358	7-4
083279	8-3
086660	3-7
102970	6-5, 6-11
104786	4-9
259812	6-5
306969	5-2
337444	4-9
339689	5-2
344267	4-9, 5-2, 5-5
348284	3-5
348318	3-5
348417	3-3
348458	3-5
350884	6-5, 6-11
355651	2-5
357103	6-3, 6-9
357111	6-3, 6-9
358317	6-5, 6-11
359737	3-7
359745	3-7
360131	3-5
360487	3-7
360677	3-7
360792	6-11
360818	6-11
361147	6-5
361154	6-5
361212	3-9
361295	3-7
361550	3-7
362251	3-7
362988	6-3, 6-9
363176	3-7
363507	7-4
363788	3-9
363812	3-7
363952	2-3
364174	3-3
364315	6-5, 6-11
364885	2-4, 5-5
365411	4-15
365478	5-5
365668	1-1
365684	1-1
367425	1-1
367656	1-1
377242	5-5
378273	4-5
378703	5-5
545962	2-2
545970	6-3
546044	2-2
546051	6-9
600171	6-5, 6-11
600189	6-5, 6-11
600296	6-5, 6-11
600643	1-1
600899	8-3
704643	3-5, 7-2
704932	4-15
705178	3-7
705954	5-2
712257	4-15
712372	4-3, 4-5, 4-7, 4-9
712919	4-13
712927	3-9, 4-3, 4-5, 4-7, 6-5, 6-11
712976	5-2
714998	4-15
720177	4-3
720193	6-5, 6-11
725267	4-5
727016	8-3
727172	8-4, 8-5
727420	8-4, 8-5
727438	8-4, 8-5
727453	8-4, 8-5
739144	4-5, 4-9
740696	3-3
745059	4-13
747303	1-1
756270	3-5, 4-9, 5-5
763417	4-3, 4-5, 4-7, 4-9
767954	2-5, 3-7, 6-3, 6-5, 6-9, 6-11
767962	3-5, 4-9, 5-2, 5-5, 6-3, 6-9, 7-2

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
768044	5-2, 5-3	784249	1-1, 6-5	785618	1-1
768259	3-7	784256	6-11	785626	1-1
768515	4-3, 4-5, 4-7, 4-9, 4-15	784264	5-4	785634	1-1
		784272	5-4	785642	1-1
768523	3-3, 3-7, 3-9, 4-3, 4-5, 4-7, 4-9, 5-5, 6-3, 6-5, 6-9, 6-11, 7-4	784280	5-4	785717	3-9
		784306	3-9	785725	3-9
		784314	3-9	785733	3-9
768820	4-7	784322	1-1, 6-11	785808	4-15
768879	4-15	784355	3-7	785832	6-5, 6-11
770867	3-7	784371	3-7	786004	4-7
771378	4-7	784405	3-7	786012	4-7
771428	3-3	784421	3-7	786178	4-5, 4-15
771436	8-3	784439	3-7	786186	4-7, 4-15
772806	5-3	784488	3-5	786269	3-10
772814	5-3	784504	6-5, 6-11	786301	3-9
776476	4-15	784603	5-2	786335	6-5, 6-11
779850	3-3	784611	4-3	786616	4-3, 4-5, 4-7, 4-9
780841	4-7	784629	4-3	786632	3-3, 4-5, 4-7
781153	3-9	784686	3-5	786640	4-5
781211	3-7	784702	8-3	786657	4-15
781229	3-5	784710	8-3	786889	6-5
781260	3-7	784736	6-3, 6-9	786954	4-7
781294	3-5	784801	8-5	786962	1-1
781302	3-9, 6-5, 6-11	784819	3-7	786988	1-1
781419	8-4, 8-5	784827	3-9	787002	1-1
781567	4-9, 5-2, 5-5, 6-3, 6-9, 7-2	784835	4-3, 4-5, 4-7, 4-9	787069	6-5, 6-11
		784843	4-3	787226	1-1
781617	7-4	784850	1-1	787234	1-1
781708	4-9, 5-5, 6-3, 6-9	784868	4-3, 4-15, 4-16	787242	1-1
781831	3-5	784918	4-3, 4-5, 4-7	787267	4-5
781872	6-5, 6-11	784959	4-3	787788	4-15
781880	6-3, 6-9	785030	4-15	787879	3-7
781922	3-7	785048	4-3, 4-5, 4-7, 4-9	787887	3-7
782177	7-4	785055	8-4	787994	6-3, 6-9
782474	6-5, 6-11	785063	3-3, 4-3	788059	3-9
782664	4-3, 4-5, 4-9	785071	3-3, 4-3, 4-7	788067	3-9
782995	3-5	785113	3-9	788166	4-9, 5-5, 6-3, 6-9
783134	5-4	785121	8-3	788935	8-3
783142	5-4	785139	8-3	788968	8-3
783159	5-4	785147	8-3	789511	1-1
783506	6-5, 6-11	785162	3-7	791251	4-3, 4-5, 4-7, 4-9
783514	6-13	785196	4-15	791277	4-13
783522	6-13	785220	8-3	791830	8-3
783530	6-13	785378	4-3, 4-5, 4-7	792226	7-4
783548	6-13	785402	4-5	792689	6-11
783555	6-13	785410	4-5, 4-7	792713	4-9
783696	3-7	785428	1-1	792721	4-9
783738	6-5, 6-11	785436	1-1	792739	4-9
783753	6-5	785477	4-3	792747	4-9
783878	6-5, 6-11	785485	2-5	792754	4-9
784181	4-13	785493	2-5	792762	4-9
784199	6-5, 6-11	785535	8-4	792788	4-9
784223	5-2	785543	4-3, 4-5	793216	3-3
784231	1-1, 3-9	785600	1-1	793315	7-4

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
793331	1-1	795146	3-3	797910	6-5, 6-11
793588	8-3	796318	4-13	808485	2-2, 2-3, 2-4, 6-3, 6-9
793885	4-9	796326	4-13	926501	1-1
794180	4-9	796516	4-9	926519	1-1
794313	1-1	797449	6-5, 6-11	926527	1-1
794370	1-1	797464	7-4	926592	1-1
794446	6-5, 6-11	797472	7-4	926600	1-1
794651	3-10	797480	7-4	926774	1-1

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.